CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JULY 5 1958



...recommend

PRICES	Trade price	P.T.	Retail price inc. P.T.
Bottle of 2 fl. oz.	1/2	4 d	1/11支
Bottle of 4 fl. oz.	2/-	7d	3/5
Bottle of 8 fl. oz.	3/6	1/01	6/-

Lixen

The Good Natured Laxative

A L L E N & H A N B U R Y S L T D L O N D O N

Do you stock

APISERUM P

There is a growing public interest in this product which contains royal jelly

stabilised by the de Belvefer method, which ensures that its properties are preserved in active form, that it is sterile and will keep for long periods at normal temperatures. The action of Apiserum is considered to be bio-catalytic, and to aid improved functioning of the system generally. Apiserum is completely non-toxic and has been found by medical authorities to have no contra-indications. Apiserum possesses the visa of the French Ministry of Health. Window and counter displays, explanatory leaflets, sales assistant's "Question and Answer" guide covering customers' queries are available on request from:—



MAPLETON'S NUT FOOD CO. LTD.

GARSTON, LIVERPOOL 19 (Sole distributors in Great Britain)

Sole importers: Apiserum, Imperial House, Dominion St., London, E.C.2. Tel: MONarch 7399



SATISFACTORY CLINICAL RESPONSE

Physicians therefore specify

Calcium B-PAS WANDER and

(calcium B-PAS Wander plus isoniazid)

in the domiciliary Chemotherapy of Tuberculosis

B-PAS (Wander), 4-benzoylamino-2-hydroxybenzoic acid, first introduced by our Research Laboratories in 1948, is the drug of choice in regimens comprising PAS in concurrent therapy.

In the form of its calcium salt, it induces only minimal side-effects as compared with sodium PAS, and because of its high acceptability guarantees as far as possible that domiciliary patients take their medication.

'B-PASINAH' (B-PAS plus Isoniazid)

Powders: Calcium B-PAS (Wander) 3.5g. Isoniazid ... 87.5mg.
Tins of 150 and 400

Cachets: Calcium B-PAS (Wander) 1g. Isoniazid 25mg.

Tins of 100 and 500

CALCIUM B-PAS (Wander)

Powders: Tins of 150 and 400 x 3.5g. envelopes Cachets: " " 80 and 400 x 1.0g.

Also available: Sodium B-PAS (Wander) in 1.5g. Cachets.



Price details of all forms of PAS from the Medical Dept.

All Wander tuberculostatic products are available from usual wholesalers or direct from

A. WANDER LIMITED, 42 UPPER GROSVENOR ST., GROSVENOR SQ., LONDON W.1



T56

FIWE

facts

about

Dettol

Dettol is active against both Grampositive and Gram-negative microorganisms.*

It is non-poisonous, non-corrosive and non-staining.

It is well tolerated on the skin and tissues in high concentrations.

It retains a high degree of efficiency in the presence of organic matter.

It is compatible with soap.

*Under standard conditions of test a 1 in 200 dilution kills Staph. aureus —and a 1 in 500 dilution kills Strep. pyogenes—in ten minutes.



Bacteriological data and other Dettol literature available from Reckitt & Sons Limited, Pharmaceutical Department, Hull.

COUNTY LABORATORIES LTD.

announce the following

PRICE CHANGES

Tuesday, 1st July 1958

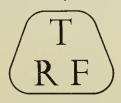
PRODUCT	RETAIL SELLING PRICE	STANDARD WHOLESALE PRICE
L.73 BRISTOW'S LIQUID SHAMPOO (bottle)	3/-	21/6 PER DOZ. <i>PLUS P.T.</i>
T.I. WATER LILIES LEAF SHAMPOO	1/3	9 /- PER DOZ. PLUS P.T.
V.I. VOSENE MEDICATED SHAMPOO (small bottle)	2/-	4/4 PER DOZ. PLUS P.T.
V.2. VOSENE MEDICATED SHAMPOO (large bottle)	4/-	28/8 PER DOZ. <i>PLUS P.T</i> .

The Retail Selling Price of the new Vosene Sachet remains unchanged at 6d.

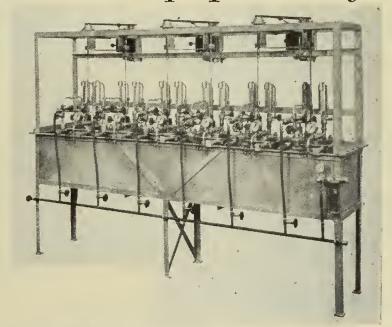
The usual Display Parcel Terms will apply when ordered direct or through County Laboratories Limited representatives.

County Laboratories Limited, Honeypot Lane, Stanmore, Middlesex. WORdsworth 4321

Stainless steel chemical equipment by



We are well versed in the requirements of the Pharmaceutical Chemist having made laboratory fermenters, as the one illustrated, 100 gallon vaccine blenders and many other items for them, and will be pleased to receive your enquiries for all types of stainless steel equipment.



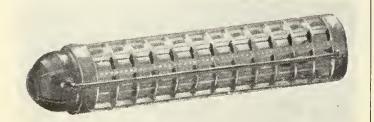
TAYLOR RUSTLESS FITTINGS Co. Ltd.

Head Office: — Ring Road, Lower Wortley, Leeds 12. London Office: — 14 Great Peter Street, London, S.W.1

Telephone: Leeds 638711/2/3 Telephone: Abbey 1575

NOVELTY CURL FOUNDATIONS

"FABULO" BRAND



The world's best and cheapest UNBREAKABLE (polythene) HAIR ROLLER or CURLER in 2 sizes $^{\rm f}$ or professional use by Hairdressers, for use with Home Perms or simply by damping the hair.

Size $l\!=\!6$ in cellophane packet (very attractive) 3'' long Size $2\!=\!5$,, ,, ,, ,, $3\frac{1}{2}''$,,

Price 15/10 per doz. packets of either size $\pm 30^{\circ}_{\circ}$ P.T. Min Retail Price 2/6 per packet of either size.

Samples on request

Supplies obtainable through the wholesale trade or direct from:

HAETAM LTD., 63 Corporation St. Manchester 4

Telephane : Blackfriars 3882

Wholesalers who do not yet stock these renowned Curlers please contact us for trade terms.

CONGRATULATIONS

to the winners of the eighth

Sanatogen

WINDOW-DISPLAY COMPETITION

E. Tomlison Esq., M.P.S., 319 Legrams Lane, Bradford, Yorks.

£30

'Sanatagen' and 'Sebbix' windaw display

2 Oxford Drug Co., Cornmarket, Oxford. £30

'Sanatagen' and 'Sebbix' windaw display 'Sanatagen'

'Sanatogen' and 'Sebbix' counter display

3 S. Fryar Esq., M.P.S., 99 Orford Lane, Warrington, Lancs. *Sanatogen and 'Sebbix' windaw display 'Sebbix' caunter display

Remember you still have more chances to win! Enter now!

STANWOOD TREATMENT

FOR THE TOBACCO HABIT

From the 1st July 1958 the distribution of this well-known product will be undertaken solely by THORNTON & ROSS, LTD., Linthwaite Laboratories, Huddersfield, who will be pleased to give prompt attention to your instructions.

STANWOOD Shows really excellent profits

Retails at **5**/Costs **27**/- per dozen

(Plus 30 % Purchase Tax) Yields 48% on selling price

By keeping STANWOOD on show you will be surprised at the results

STANWOOD PROPRIETARIES LTD., BOLTON

BURROUGH'S ABSOLUTE ALCOHOL

JAMES BURROUGH LTD. 1 CALE DISTILLERY LONDON 8.E.11



THE HOSEZENE CO.LTD.

NOTTINGHAM

NOW is the time to stock

LUSH SOLUBLE FERTILIZER

BIG ADVERTISING CAMPAIGN NOW RUNNING

don't miss this EXTRA profit.

Sole U.K. distributors: KAY BROTHERS LTD., STOCKPORT

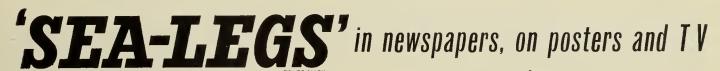
Manufactured by:

LUSH-GREEN PRODUCTS LTD., LUTON, BEDS.

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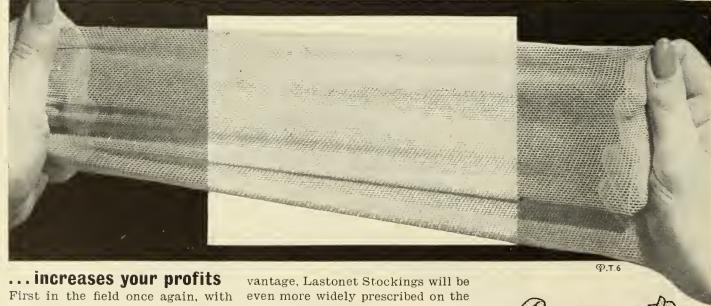
The happy traveller - theme of the high-spirited advertising for





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light-resistant stocking



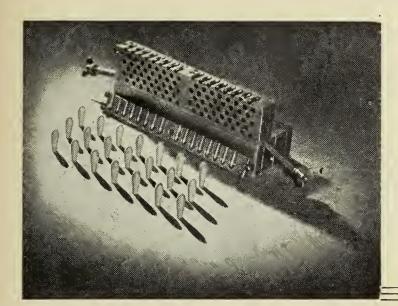
improvements in surgical stockings, Lastonet now introduce light-resistant rubber into their elastic net. Because this largely prevents the deterioration caused to rubber by exposure to light, it enhances the efficiency and lengthens the life of Lastonet Elastic New Stockings. With this added adNHS, so your profits must increase.

No stock problems with Lastonet Stockings! No risk. Every stocking is individually made to the patient's measure. Quick delivery and an excellent profit margin are assured. Send today for measurement forms and Display Material.

ELASTIC NET STOCKINGS Nylon or cotton

LASTONET PRODUCTS LTD. CARN BREA, REDRUTH, CORNWALL





MANUFACTURED BY

from HIGHEST QUALITY MATERIALS

YOU CAN ORDER WITH

RICHARD DANIEL & SON LTD.

MANUFACTURING CHEMISTS

MANSFIELD ROAD, DERBY -- Tel: 40671 (8 lines) AND AT ASHTON - UNDER - LYNE -- Tel: 2816 (6 lines)

ST. JAMES' BALM



The ONE Ointment for the MANY Skin Troubles

ST. JAMES' BALM is the proven remedy for common skin troubles—and for some quite uncommon ones too! Because it contains the broth filtrates of the microbes causing most skin infections, treatment is successful in an exceptional number of cases. ST. JAMES' BALM is therefore the ideal general-purpose ointment for family use. On merit alone, ST. JAMES' BALM is in steadily increasing demand. You may stock and recommend it with absolute confidence.

MEDICO-BIOLOGICAL LABORATORIES LTD.

CARGREEN ROAD, SOUTH NORWOOD, LONDON, S.E.25

MBL

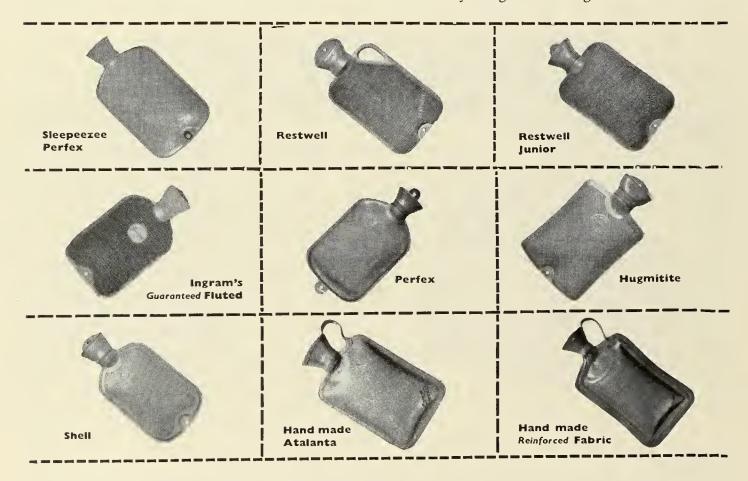
Time to be hot on the trail of winter business with





Hot water bottles

Winter is not so far away. So it's time you made sure you have a complete range of Ingram's Hot Water Bottles — ready for the demand that is bound to come. All these Moulded and Hand Made Hot Water Bottles carry "Ingram's" full guarantee.



From your wholesaler. In case of difficulty write to:

J. G. INGRAM & SON LTD., HACKNEY WICK, LONDON, E.9



ABLAZE OF PUBLICITY—that's what we're giving the 'Alkathene' label. We're telling housewives to look for it whenever they buy houseware. This is the theme of colour pages in women's magazines, 15 and 30-second TV commercials and a 2-minute colour film in cinemas. Your customers won't accept just any polythene article—they'll look for the 'Alkathene' label.

Are you ready to meet this growing demand? Make sure you order houseware which carries the 'Alkathene' label. Give it a good display, so that you profit from this great advertising effort.

FREE DISPLAY MATERIAL

to link your shop with 'Alkathene' national advertising, available on application through your usual trade channels or direct to Publicity Dept., Plastics Division, Imperial Chemical Industries Ltd., Welwyn Garden City, Herts. Shelf cards can be obtained from individual manufacturers.

'Alkathene' is the registered trade mark for the polythene manufactured by I.C.I.

IMPERIAL CHEMICAL INDUSTRIES LIMITED . LONDON . S.W.1



You might find BROMIDES & IODIDES here

but *your* best source of supply is the **M&B** range of pharmaceutical chemicals. The range includes:

AMMONIUM BROMIDE B.P.C.

CALCIUM BROMIDE B.P.C.

POTASSIUM BROMIDE B.P. CRYST. AND POWDER

SODIUM BROMIDE B.P.

STRONTIUM BROMIDE B.P.C. 1934

IODINE B.P. RESUBLIMED

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POTASSIUM IODIDE B.P. CRYST.



MANUFACTURED BY

MAY & BAKER LTD · DAGENHAM

Telephone: DOMinion 3060 · Extension 317

PHA1001





FOR THE CHEMIST WHO STOCKS UP WITH

Sno-stik

The New Stick Deodorant

There's real help this year for the Sno-stik stockist—dramatic and exciting help in the National Press and principal women's magazines. The Sno-stik campaign will be the most outstanding deodorant campaign of the year. The twin space technique will demand attention wherever it appears. Women will remember Sno-stik—ask for Sno-stik. Make sure you can supply.

E. Griffiths Hughes Ltd.,

P.O. Box 407, Manchester





This is how the Sno-Stik Twin Spaces will appear in the national dailies As from the 30th June

the retail price of

the Large (25 fl. oz.) bottle

of PLJ lemon juice

will be 4/6.

The price of the Small

 $(12^{\frac{1}{2}} fl. oz.)$ bottle remains

at 2/6.

Selling Agents:

MACLEANS LTD.





in the big

circulation

papers

reaching

80% of

women

over 16

Hair styles come so easily when you set with TRESS

advertising...

... because Tress makes your hair follow your fingers

SPRINKLE ON YOUR HAIR after your usual shampoo, fragrantly perfumed TRES immediately makes your hair so easy to manage that a new cleverness seems to come into your fingers. Perfect pin curls and flattering waves come with as on shinking ease just how and where you want them.

Only TRESS will work these near miracles because only TRESS contains the wonderful new hair-nutrients discovered in the Laboratories of L Oreal-Paris. It's these which give your hair its completely new, pliant, shining beauty, new vitality, a new readiness to follow your migers.

Your hair will look twice as lovely, twice as shining, and your style will stay in place, manageable and shapely, for twice the usual time.

Makes your set look twice as lovely for twice as long A creation of L'OREAL - PARIS
The World's Greatest Mukers of Hair Beouty Products

YOUNG women HAIR CONSCIOUS women **WOMEN** with money to spend

TRADE TERMS

Small Size Price 8/10 per dozen bottles plus 60% tax selling at $1/6\frac{1}{2}$ per bottle. Large Size Price 14/6 per dozen bottles plus 60% tax selling at $2/6\frac{1}{2}$ per bottle.

will all want to buy

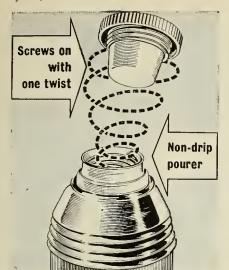




a creation of L'OREAL · PARIS

From your usual wholesaler or from: GOLDEN LIMITED, 7 Grosvenor Street, London, W.1. Hyde Park 1671

Republic of Ireland enquiries to: Lilmar, Pharmaceuticals Ltd., Santry, Dublin.



VACCO report a screw-on success story

Vacco's new polythene screw-on stopper has met with instant sales acceptance from the public. They recognise that it is the perfect stopper. Make sure that you take your share of the new Vacco sales.

Why this instant success?

FOUR VERY SIMPLE REASONS

- 1 The screw-on screws on with one quick twist.
- 2 Cannot pop out.
- 3 It cannot leak.

Vacco Tea Flask Model T.F.2 9/3 inc. P.T.

4 Being polythene, it's completely washable, hygienic and tasteless.

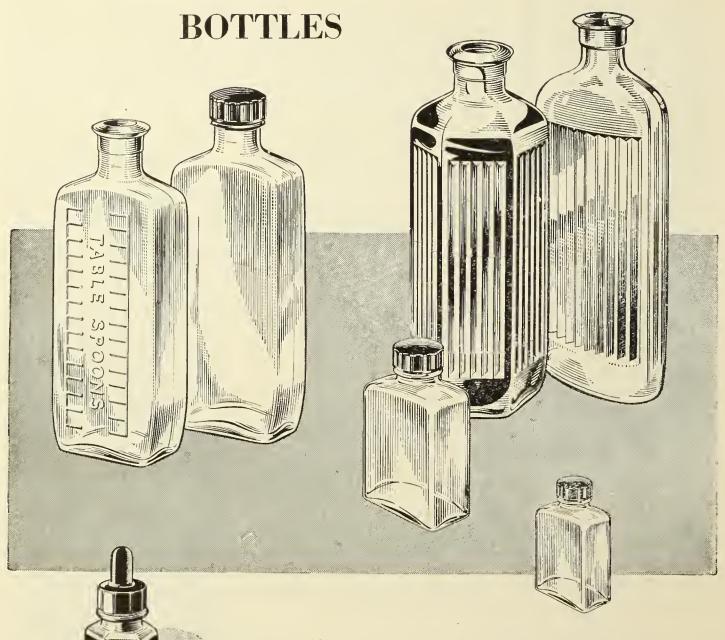
In short, the Vacco screw-on outdates all other closures. Other winning ideas from Vacco: the brilliance of the Stripes Master designs, the handy milk-bottle of the established Tea Flask. No wonder more and more people ask for Vacco. They like the Vacco improvements. They like the Vacco design. They like the Vacco value. This season make sure *you* display these best-selling models!



Supplies from your wholesaler or write to: - VACCO LIMITED, GROSVENOR GARDENS HOUSE, GROSVENOR GARDENS, LONDON, S.W.1

Vacco Master Model V.M.S. 7/6 inc. P.T.

BEATSON DISPENSING



Be sure to specify BEATSON

ANOTHER BEATSON SERVICE!

To ensure maximum protection against dirt and dust, all bottles from our dispensing range are packed in the Beatson Sealed Carton to maintain them in "production clean" condition until use.

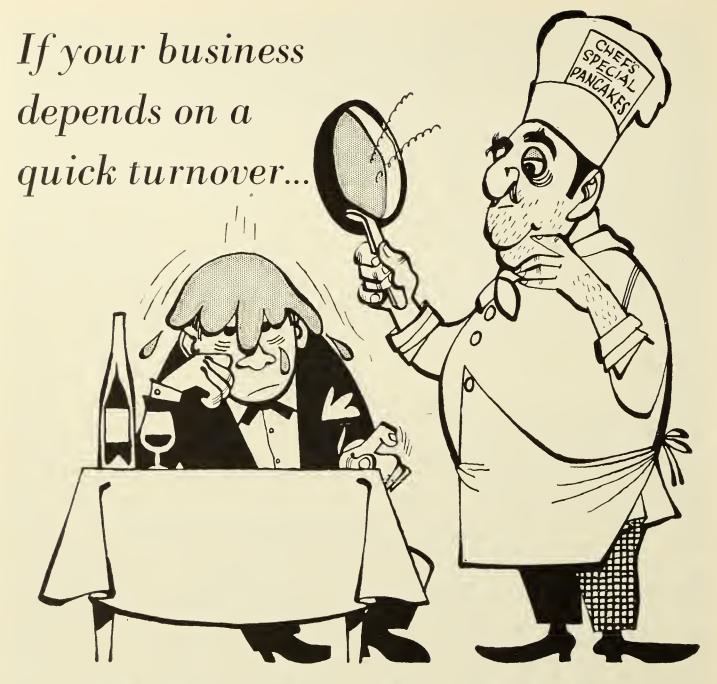
> "The Sign of a Good Bottle"

BEATSON, CLARK & CO., GLASS BOTTLE MANUFACTURERS

ROTHERHAM

(Established 1751) YORKS





make sure the goods are advertised in the Daily Mail

The right kind of advertising can always speed up your turnover. That's why it's so important to ask salesmen this question: "Is the Daily Mail on the advertising schedule?"

If it is, you know you're on to a good thing. Because the people you look to for the great bulk of your business, the ones who come in *regularly*, tend to be Daily Mail readers. You may have noticed it yourself.

Daily Mail readers know the advertisements

in their newspaper can be taken at face value. Before they ever appear in print they're carefully vetted for accuracy. If a customer is misled, and makes a genuine complaint, the Daily Mail will see that he gets his money back—if necessary by bearing the expense itself. All this in the interest of advertising that can be believed.

What's good for your customers is good for you, too. Be sure it's a Daily Mail-advertised product every time.

YOUR BEST CUSTOMERS READ THE DAILY MAIL

CARNEGIES **PHARMACEUTICALS**

IN CASES OF SHOCK AND ACUTE HYPOTENSIVE STATES

CARNEGIES Solutions of

L-Noradrenaline

NOW AVAILABLE IN TWO FORMS

INTRAVENOUS SOLUTION FOR DRIP **INFUSION**

This preparation is generally indicated for treatment of acute hypotension. It contains 1 mg l-noradrenaline per ml. of solution and requires substantial dilution before intravenous infusion.

EMERGENCY SOLUTION FOR INJECTION

This preparation is designed for use only in extreme emergencies when the pulse is no longer palpable and immediate resuscitative measures are called for. It contains 100 μg per ml. and does NOT require dilution before use.

In the treatment of shock the agent used should simulate the normal compensatory mechanisms as closely as possible.

It has been shown that L-NORADRENALINE more closely approaches these ideal requirements than adrenaline, but has a toxicity only one-quarter of that of adrenaline.

The merits of L-NORADRENALINE therapy in hypotensive states have been evaluated in the medical press, vide "Lancet" 11th May, 1957, and 25th May, 1957.

PRESE	NTATION	AND	PRICES

L-NORADRENALINE (for drip infusion)		Retail Price (each) inc, P,T,	Trade Price per doz.
4 ml. Snapules (Regd)	Box of	6 12/-	96/-
	Box of	50 —	696/-
2 ml. Snapules (Regd)	Box of	6 8/3	66/-
	Box of	50 —	498/-
16 ml. Ampoules	Box of	$5 28/1\frac{1}{2}$	225/-
EMERGENCY L-NORAL (for injection only)	RENA	LINE	
2 ml. Snapules (Regd)	Box of	6 8/71	69/-

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Sole Distributors:

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N. keland: HYDE & ENTWISTLE LTD.
Orangefield House, Castlereagh, Belfast

Republic of Ireland: CONSTANT CHEMICALS
7 Dame Court, Dublin LTD. TREE OF LIFE'



CHEMIST DRUGGIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 170

July 5, 1958

No. 4089

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PUBLISHED BY

MORGAN BROTHERS (PUBLISHERS), LTD., at 28 Essex Street, Strand, London, W.C.2

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ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each.

You're absolutely right . .

.. to favour WRIGHT'S



COAL TAR SOAP

Recommend Wright's—you're following the fifty-year endorsement of the medical profession. Sell Wright's, easily—behind you, powerful consistent advertising and sales promotion. Display Wright's colourful counter carton takes little room but does big selling job.

More Wright's coal tar soap is now being sold than at any time in fifty years solid selling!

The Golden Tablet in Bath and Toilet sizes

WRIGHT LAYMAN & UMNEY LTD . SOUTHWARK . LONDON . S.E.1

Bradosol Lozenges

each containing 0.5 mg. Bradosol (β-phenoxy-ethyl-dimethyl-dodecyl ammonium bromide)

for Mouth and Throat Infections

WELLCOME INSTITUTE both bacterial and fungal origin LIBRARY INCLUDING ORAL THRUSH

WelMOmec Coll. Coll.

Tubes of 20 lozenges (2/6)

Subject to a discount of 331% to retail pharmacists, Exempt Purchase Tax

CIBA

Bradosol' is a registered trade mark. Reg. user

CIBA LABORATORIES LIMITED, HORSHAM, SUSSEX

elephone: Horsham 4321

Telegrams: Cibalabs, Horsham

7/7

CHEMIST AND DRUGGIST

Volume 170

JULY 5, 1958

No. 4089

Poisons Law Changes

AMENDMENTS TO LIST AND RULES

CHANGES in the Poisons List and Poisons Rules came into operation on July 1. The substances affected and changes are:-

Chlorambucil; its salts (PI. S1. S4).

: 3 - Dimethyl-4-phenyl-4-propionyloxyhexamethyleneimine; its salts (Pl. Sl). Dioxaphetyl butyrate; its salts (Pl. Sl).

1 - Methyl - 4 - phenylpiperidine-4-carboxylic acid isopropyl ester; its salts (P.1. S.1.).

Monofluoroacetic acid; its salts (PI. S1);

(replaces sodium monofluoroacetate). Normethadone; its salts (PI. SI). Phenomorphan; its salts (PI. SI). Promazine; its salts (PI. SI. S4); Propoxy-

phene; its salts (Pl. S1).

Tolbutamide (PI, S1, S4).

Tropine diphenylmethyl ether; its salts

Dithienylallylamine compounds; their salts amended to:

Dithienylallylamines; dithienylalkylallylamines; their salts (Pl. S1. S4).

Methylpentynol now becomes:

Methylpentynol; its esters and other derivatives (Pl. S1).

Formic acid (PII, S2, S3).

Substances containing less than 5 per cent. w/w are exempt.

Fluoroacetamide, Flu S1. S3. S7. S8. S16). Fluoroacetanilide (PII.

exempt if not for use in agriculture or

horticulture nor for the destruction of rats and mice and solutions containing not more than 1 per cent, with and containing also acetamide and a bitter principle and a dye.

Phosphorus compounds, the following:-Amiton, demeton-O, demeton-S, demeton-O-methyl. demeton-S-methyl, di-ethyl 4-methyl-7-coumarinyl phosphorothionate, diethylp-nitrophenyl phosphate, dimefox, ethyl p-nitrophenyl phenylphosphonothionate, mazidox, mipafox, parathion, schradan, sulfotep, TEPP (HETP), triphosphoric pentadimethylamide. (PII. S1. S7. S8):

except demeton-O-methyl and demeton-S-methyl, these phosphorus compounds are exempt when not issued for use in agriculture or horticulture.

Monofluoroacetic acid; its salts (Pl. Sl. S7). are now subject to restrictions similar to those placed upon strychnine. supply is restricted to: wholesale dealing, for export, education research or analysis or as a rodenticide for use by employees of a local authority or a port health authority or by persons carrying on a business of pest control.

To be labelled: Caution this substance

is poisonous. Inhalation of the powder is dangerous. It is also dangerous to let the substance come into contact with skin or clothing.

Phenyl mercuric salts are now exempt

from control when as antiseptic dressings on tooth-brushes.

The Poison Rules have also been amended to provide for the recognition of the British Veterinary Codex and to take into account of the change in name of the National Formulary to the British National Formulary.

Polymers and K.I.D.

REFERENCE TO ARBITRATION

THE Board of Trade have received complaints under Section 1(5) of the Safeguarding of Industries Act, 1921, that polyethylene, polymethyl methacrylate, polystyrene and polyvinyl chloride have been improperly excluded from Key Industry Duty List J. The complaints are being referred to the arbitration of a tribunal and the date

of the hearing will be announced in due course. Any communications should be addressed to the Board of Trade's Tariff Division, London, S.W.1. not later than July 25.

Free Trade Area

SUPPORT FOR PROVISIONAL AGREEMENT

THE six-nation European Parliamentary Assembly in Strasbourg on June 27 gave its support to a plan to speed the creation of a Free Trade Area linked to the existing Common Market. The Assembly approved a resolution calling for an urgent provisional agreement under which the first 10 per cent. tariff cuts between the Common Market six (C. & D., June 28, p. 677), would be extended to the eleven other nations of the O.E.E.C. thus creating a "jumping off" point for the F.T.A. The provisional arrangement, to expire on July 1, 1960, would give the F.T.A. negotiators a breathing space of two years if the member reversements of years if the member governments of the Common Market adopt the scheme during their meeting in Brussels shortly. The resolution added that the Europe-wide 10 per cent. reduction in tariffs should be accompanied by a "declaration of intentions" outlining



GUEST OF ASSOCIATION: Photographed while at Riker Laboratories, Ltd., Loughborough, Leics, on June 24, Mr. Bahjat Kashmula (director-general of medical supplies, Government of Iraq) is spending several weeks in Britain at the invitation of the Board of Trade and as the guest of the Association of British Pharmaceutical Industry. Mr. Kashmula is seen examining a branded vial of the company during a testing procedure designed to detect leakage. Left to right, Messrs, R. W. Richards (general sales manager), F. R. Cresswell (export sales manager), Bahjat Kashmula and E. A. Burfoot (works manager).

the principles on which the F.T.A. treaty could be based, and suggested that the expression "Free Trade Area" should be replaced by "European Economic Association."

Narcotic Drugs

U.K. REPORT FOR UNITED NATIONS

THE quantity of Indian hemp seized by the Customs authorities in Great Britain during 1957 was more than twice that seized in 1956. It amounted to 237 kilos, and was often in the form of mechanically compressed blocks wrapped in brown paper. That information is included in the Government Report to the United Nations on the working of the international treaties on nareotic drugs. It gives the number of known addicts in Britain as 359 including seventy doetors, two dentists, one pharmacist and fifteen nurses. Morphine (used by 149 known addicts), pethidine (74), heroin (52) were the drugs most used by addicts.

The following drugs were manufactured in Britain during 1957:—Cannabis (extracts and tinctures), cocaine, eodeine, diaeetylmorphine, diethylthiambutene, dihydrocodeine, ethylmorphine, hydrocodone, medicinal opium, methadone, morphine, oxycordone, pethidine, phenadoxone, pholocodine, thebacon (acetyldihydrocodeinone) and

thebaine.

Those licensed under the Dangerous Drugs Act by the Secretary of State fall into the following categories:— Ambulance services (7), analytical research workers (18), brokers (9), chemists' transfer agents and liquidators (5), druggists' sundriesmen (18), manufacturers of dental anæsthetics (5), manufacturers of patent and special medicines (36), manufacturers of veterinary medicines (4), merchants (5), private dispensaries and nursing homes (27), wholesale dealers (133), miscellaneous (18). In addition a small number of persons, firms or organisations are specially authorised for a particular purpose, details of which are not given.

"Unfair" Test Scripts

AN EXECUTIVE COUNCIL'S CONCERN

REFERENCE was made at a recent meeting of Denbighshire and Flint-shire Executive Council to the unfairness of taking action against chemists in respect of faults found with articles which they had to issue unopened on prescriptions. The discussion arose on receipt of a letter from the Welsh Board of Health recommending that a chemist should be cautioned for issuing unsatisfactory gauze on a test prescription. Alderman G. O. Williams said gauze, bandages and other dressings were bought ready packed, and were not supposed to be opened before being issued. The Council ought to suggest that action should be taken against the manufacturer, and not against the chemist, if there was anything not up to standard. The anything not up to standard. The chairman (Mr. O. Roberts) said it was the chemist who was under contract to the Council, and the Council could not take any action against the manufacturer or wholesaler. Mr. T. G. Anwyl, M.P.S., said if there were a "conviction "against a chemist for something over which he had no control, it meant a double penalty if ever he made a slip in the future. Chemists were bound to pass containers in which dressings were received. "If we do not, we break our contract. If we hand them over unopened and there is a complaint we still break our contract." The clerk said he had raised that matter at a meeting of the Executive Council's Association and had suggested that test prescriptions for dressings, etc., should be taken to manufacturers and not to chemists. It was decided, however, that that was not practicable.

£2,400 for Laboratories

AID FOR HEBREW UNIVERSITY

THE second annual dinner and ball of Pharmaceutical Group of the the Friends of the Hebrew University of Jerusalem, held recently in London, raised about £2,400, which is being used to help to equip the pharmacy laboratories in the new pharmacy building of the University. Nearly 150 members and guests attended, including Mr. A. E. Saffer (a representative from the recently formed Leeds Group). Dr. M. Donbrow presided and the guest of honour was Professor A. Neuberger, F.R.S. Professor Neuberger stressed the important rôle played by the academic staff of the Hebrew University. At international Hebrew University. At international conferences, where he had had opportunities of meeting some of them on common ground, he was most impressed by the extremely high status com-manded by scientists from Israel. It was essential for the University to develop and extend its influence; already it had contributed enormously to the growth of an intellectual atmosphere in Israel. Dr. Donbrow gave a résumé of the functions which the Group had organised during the year. Professor Norman Bentwich (chairman of the British Friends of the Hebrew University) also spoke. He announced that it had been decided that the school of pharmacy at the Hebrew University should become an independent Faculty in a separate building within the campus of the main University buildings on the outskirts of Jerusalem.

New Zealand Market

WARNING OF IMPORT CUTS

A WARNING that New Zealand's standard of living might drop if export prices do not recover substantially in the near future was given in an economie survey presented to the House of Representatives on June 20 by the Finance survey was a prelude to the budget which Mr. Nordmeyer presented on June 26. It said the lowering of living standards would be reflected largely in a reduction in the amount of consumer goods New Zealand could afford to import. Mr. Philip Holloway (Minister of Industries and Commerce) said that the economic problem facing New Zealand was not a short-term one. Reducing imports was only a short-term solu-tion and the need was to produce more goods in New Zealand. Raw materials would get preference over finished goods and that would change the pattern of imports in the next ten to fifteen

years. Overseas interests were deciding to start manufacturing in New Zealand and the effects of that new production would be felt increasingly from the middle of 1959.

Research and Diabetes

DIABETIC ASSOCIATION'S EXHIBITION

SPEAKING at the opening of an exhibition organised by the British Dia-betic Association at Central hall, Westminster, London, June 25-28, Dr. R. D. Lawrence (a vice-president of the Association) referred to research being undertaken on sugar metabolism. When Banting and Best isolated insulin it might have been thought that there was no more need for research. But that was not so," said Dr. Lawrence, adding that it had been found that other factors entered into sugar metabolism and research was being undertaken on the effect of endoerine and other glands. "There is a crine and other glands. There is a vast new field to be investigated to discover the cause and possibly a cure for and a way of preventing diabetes," he concluded. Dr. Lawrence was proposing a vote of thanks to Princess Alexandra of Kent who opened the exhibition, the object of which was to focus attention on some of the foods, products and equipment available to diabetics. A full programme of talks and films was given during the exhibition.

Proprietary Association

ANNUAL MEETING AND ELECTION

AT the annual meeting of the Proprietary Association of Great Britain held in London on June 19, the Rt. Hon. Ernest Brown, C.H., M.C., was elected Chairman. The two Vice-chairmen (Messrs. H. G. Lazell and S. W. Day) and the Honorary Treasurer (Mr. B. A. Elliman) were re-elected. The following were elected members of the Executive Committee:—Messrs. F. W. P. Corbould, N. F. Fabricius, A. J. C. Gormley, W. Sim Harris, J. W. Jamison, S. W. Knott, O. P. Marland, S. Traves, P. G. E. Warburton and Alfred Wiseman. At a luncheon which preceded the annual meeting the guest of honour was Dr. Charles Hill, M.P. (Chancellor of the Duchy of Lancaster). The annual report records four admissions to membership, and a 3\frac{3}{4} per cent. rise in exports of proprietary medicines from Great Britain during the year.

Empire Games

BRANCH TO ENTERTAIN PHARMACISTS

CARDIFF and District Branch of the Pharmaceutical Society state that, for pharmacists visiting Cardiff for the Empire Games, there will be an information bureau established at I. Rowland James, Ltd., wholesale chemists, 9 Westgate Street, Cardiff (almost opposite the entrance to Cardiff Arms Park). There they will be given details of Branch activities that have been arranged for their entertainment. Any information required prior to arrival in Cardiff may be obtained from the Branch Secretary: Mr. A. B. J. Munday, M.P.S., 170 Albany Road, Roath, Cardiff.

NEWS IN BRIEF

STOCKPORT chemists have been warned that a man has been obtaining Schedule 4 drugs on forged prescriptions.

THE annual meeting of the British Association for the Advancement of Science is to be held in Glasgow August 27-September 3. Sir Alexander Fleck will give the presidential address. School-children under fifteen are cooperating in a "Junior B.A." innovation.

BRITISH Standard for scalpels with detachable blades (B.S. 2982:1958) has been published (British Standards Institution, 2 Park Street, London, W.1. Price 3s.). Its primary purpose is to ensure that reasonable limits are maintained for fittings by which blades are attached to handles, so that blades and handles of differing manufacture give a satisfactory grip and the design provides balance and efficiency in use. The various shapes and sizes of blades have not been specified.

SPORT

Golf.—LIVERPOOI CHEMISTS' GOLFING SOCIETY, at Ormskirk club, on June 11. Evans cup and prize, 1, B. Gould (12), 74; 2, E. P. Pribble (8), 76' Visitors' prizes, 1, P. McKenzie (21), 64; 2, P. Dromgoole (5), 73,

LONDON CHEMISTS' GOLFING SOCIETY, at Hendon golf club, on June 26. Sanger cup (medal), G, H, Hankinson (16), 73; Jubilee vase (medal), A. S. Jerwood (19), 74; Thomson cup (stableford), E. G. Smith (7), 33; Visitors' prize, 1, D. G. Asling (10), 38; 2, J. Copeman (8), 34; 3, W. Grieg (7), 34.

ULSTER CHEMISTS' GOLFING ASSOCIATION, at Dundalk golf club on June 25, B.D.H. cup competition: Republic versus the North (over nine holes). Eire golfers captained by L. Cashman defeated the team from the North captained by J. Jennings. The aggregate of the best eight cards was South 308, North 318½. Individual prizes: South, 1, B. R. Smith; 2, J. O'Connor; North, 1, G. P. Taylor; 2, J. Fitzsimons.

Cricket.—Annual match between Arthur H. Cox & Co., Ltd., Brighton, and William Ransom & Son, Ltd., Hitchin, at East Brighton Park, on June 20. Cox's won the toss, batted first and were all out for 100 by tea time, J. Sworder taking 5 wickets for 46. Top scorer was E. Mottram with a masterly 55. Ransoms could not exceed their opponents' total before stumps were drawn but played soundly, scoring 94 runs for the loss of 6 wickets. K. Berry's forceful innings of 30 was a pleasure to watch against the determined bowling of E. Mottram and J. Pcacock.

Bowls. — Ulster Chemists' Association Bowlers v, Scottish Chemists' Bowling Association, at Airthrey Spa bowling club, Glasgow, on June 25. Annual match for the Rexall cup. The Ulster bowlers won for the first time since the scries began by 85 to 69. Scores: Ulster Chemists, J. Caldwell, 28; S. Magowan, 18; S. T. McIlroy, 24; A. Steen, 15; Scottish Chemists, P. Doig, 14; A. McKinley, 19; Dr. J. Browne, 19; J. E. Bridge, 17, Rinks prizes, J. Caldwell, T. A. Ross, J. M. Gorman, W. McConnell, Mr. J. Brittain (sales manager, Rexall Drug Co., Ltd.), presented the cup to the winning team. Dr. J. Browne (captain, Scottish team) presented a beaten pewter tankard to the captain of the Ulster team (S. T. McIlroy), who in turn, presented Dr. Browne with Irish linen for his wife,

LOCAL OFFICERS

PHARMACEUTICAL SOCIETY

Northern Scottish Branch, — Chairman, S. Penny, Inverness; Vice-chairman, W. S. Bolton, Dingwall; Secretary Treasurer, 1.5. MacPherson, 14 High Street, Ardersier, Inverness-shire.

TOPICAL REFLECTIONS

By Xrayser

Summer Number

You have always studiously avoided applying the popular description "Summer Number" to your Annual Special Issue. My copy arrived in Arctic weather conditions, which fully justified your prudence. But such deplorable weather all over the country must have ensured the leisurely and slippered perusal of some excellent material unencumbered with the distractions of garden, golf-course or bowling green that may be expected to compete in happier summers. There is the customary feast of good things, beginning with an authoritative and beautifully illustrated article on bells and mortars. Added to earlier work by the same author on the subject of drug jars, there is material for a book which would give great pleasure and aesthetic satisfaction to the connoisseur, who need not necessarily be a pharmacist. Fortunately, such examples of the metalworker's art have been sufficiently substantial to last through the centuries, and it is comforting to know that so many good examples of bell-metal mortars are permanently housed in museum collections, where they are safe from the inspired acquisitiveness of transatlantic collectors. The illustrated article on the development of the artificial feeding of infants demonstrates that the problem is not one of recent origin, though it surprised me to know that it was tackled so far back as 4000 years ago. Again we cannot fail to admire the art which was allied to ingenuity in the making of so apparently commonplace an article as a baby's feeding bottle. The example dated 1900 (illustration 25), with the long rubber tube, was still in evidence in my early days in pharmacy, and one had the feeling that it must have presented hazards in sterility. This and indeed all the features of a very special issue lead me to say "Congratulations to staff and contributors.'

Other Items

I find both a strong connecting link and a lesson in social conditions arising out of the article dealing with rose-hip syrup (p. 684) and that on botany "rambles" in Jugo-Slavia (p. 729). The collection of rosehips in this country is organised on a large scale, and it is of interest to learn that the pupil collectors of a school in Perthshire have used the money so earned to purchase a film projector for the school. That is one of the refinements of our modern age. In Jugo-Slavia, on the other hand, which suffered badly from the ravages of war, the money collected had perforce to be utilised for food and school kitchens, as well as for clothing, shoes and boots. There is also a difference in that the collection in Jugo-Slavia is fulfilling a useful educational purpose in itself. The dog-rose has been used, as you state, in the making of a confection, and about 1850 there was a linetus prepared from the confection with the addition of oil of almonds, tincture of squill and tincture of opium, though, to judge from the entries in the Dalkeith apothecary's journal (p. 693 et seq.), opium was not without its dangers.

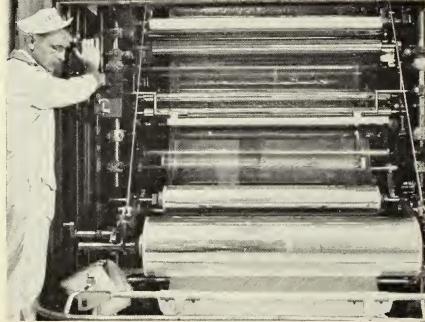
Bed Warmers

The personal heaters of the past illustrated on p. 690 give an insight into yet another field of development, which has reached the acme of comfort in the electric blanket. Dr. John Brown, author of *Horae Subsecivae*, that delightful collection of essays, relates a story worthy, as he says, of *Humphrey Clinker*. The poet Campbell found himself in an old country inn in a remote part of the border country near Tweedsmuir. He had got "snug into bed after his tumbler of toddy, when there was a knock at the door, 'Come in,' and behold, with a candle in her hand stood the pretty maiden—who had given him his supper—in her short gown and petticoat. 'Please, sir, could ye tak a neebor into yer bed?' 'With all my heart,' said the imaginative susceptible poet, staring gaily up. 'Thank ye, sir, for the Moffat carrier's just come in all wet, and there's not a single other place.' Up came the huge and reeking man," concludes John Brown, "and exit the dainty little woman."

BRITISH-MADE BASE FOR PHOTOGRAPHIC FILM

An industry passes its "eleven plus"





Lett: Stripped from the endless copper band over which it passes while heat drives off most of the solvent, the film enters the seasoning cabinet shown in the centre of the picture, going from there to the "subbing" cabinet on the right, in which it is prepared for emulsion coating and backing, Above: The photographic film base is mechani-

cally unloaded on to the reels on which it will be transported to the works of liford, Ltd. At left: The works has been organised to a high degree of automation, and the casting machine is fully supervised from the control panel in the illustration.



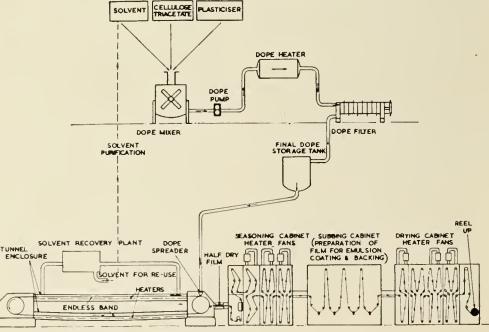
FOUNDED twelve years ago, the only plant manufacturing film base in the British Commonwealth is now so well established that its operators, Bexford. Ltd., have felt able to reveal something of the scope and efficiency of their manufacturing process. Situated at Brantham, on the Suffolk-Essex border. on what was formerly marshland, the plant cost £2½ millions to construct, but is saving the country around \$5 millions a year in payments to the United States, formerly the source of virtually the whole of the film base used in this country. It was set up at a time when British industry was being warned to reduce dollar expenditure. In 1946, not only was the actual dollar bill for film base used in roll and cine films and x-ray and other medical films too high for the country's economy, but the introduction of the National Health Service was promising to bring about a greatly increased demand for

x-ray film—a promise fulfilled to such an extent that the number of persons x-rayed in British hospitals has increased from under eight millions in 1948-49 to thirteen millions in 1956. The creation of Bexford, Ltd., to cope with the situation, resulted from consultations between Ilford, Ltd., and B.X. Plastics, Ltd. (in which Distillers Co., Ltd., has an interest), the name Bcxford reflecting the joint holding in the new company.

The factory now supplies all the film base for the photographic films of Ilford, Ltd., in Great Britain, plus a certain surplus that is being exported (even to America). When the venture was embarked upon there was little technical know-how on film-base manufacture in this country. The process had to be discovered, mainly by trial and crror. Technicians had to be trained (or to train themselves) and machinery had to be specially designed and built. To have reached present perfection and output in a little over a decade is therefore a considerable achievement.

The Casting Process

Essentially the process consists in making a "dope" by dissolving a cellulose derivative in organic solvents,



THE FILM CASTING PROCESS IN DIAGRAM



Solvent recovery is exceptionally difficult, because the principal solvent in use, methylene chloride, has a boiling point little above that of ether. But the recovery operation is most necessary, since the solvent is also expensive. About 95 per cent. of what is used is recovered for reuse. The illustration shows the main apparatus for solvent recovery and distillation.



The film is put under numerous tests for its physical properties (breaking strength, tearing strength, uniformity of thickness, etc.), in a room in which temperature and humidity are constant,

spreading or "casting" the thick solution on to a moving surface, and causing the solvent to evaporate until a coherent film has been formed which can be stripped off the moving surface. The film has then to be passed through seasoning cabinets where any residual solvent is removed and coating and backing solutions applied, both to control "curl" and to provide a key for the subsequent emulsion coating. The cellulose derivative now used is cellulose triacetate, which has physical properties similar to those of the original nitrocellulose film without the draw-

back of high inflammability. As cellulose triacetate has a relatively symmetrical molecule, it is liable to crystallise and become brittle, and that factor necessitates special techniques in casting and the use as solvent of methylene chloride, a relatively expensive and extremely volatile solvent.

Preparing the "Dope"

The first stage in manufacture is the preparation of the "dope," a mixture of cellulose triacetate flake (made in Lancashire by the interaction of cotton linters with acetic anhydride and acetic

acid) with a solvent and a plasticiser. The dope is loaded into a stainless steel mixer, pumped through a heater to drive off dissolved air, and driven under pressure through thick layers of filtering medium. From the filter the dope passes to a stainless steel storage tank on to a pumping assembly, and on again to a spreader from which it is extruded in a thin layer on to the specially prepared surface of an endless copper band running on steel drums. The whole operation is completely enclosed in an electrically heated casting enclosure, from which the original solvent is driven off into a recovery plant. In the process the liquid dope becomes a solid film layer. It is stripped from the band and passed through a seal into a seasoning cabinet. Its next treatment takes place in a "subbing" cabinet, made largely of glass, where extremely this solid in the seasoning cabinet. tremely thin coatings are applied to provide cohesion for the light-sensitive emulsion it is eventually to support and, for certain purposes, to control the curl of the film. As the coatings are applied in the form of a solution of organic solvents, the film requires further drying before being rolled into lengths of 1,000 ft. or more according to the type of film for which the base will be used.

The solvents used being expensive, they have to be recovered to the fullest extent possible. From the casting machine, where the dope is spread, the solvent is sucked through a refrigerator plant, the partially treated air being purified and returned to the plant. The casting cabinet is maintained under slight suction, and residual solvent is carried off to carbon adsorber plants in which it is recovered and purified for reuse.

Control Problems

The photographic purposes of the film demand a flawless surface and unvarying thickness in the film base, and the tolerance of variation in thickness is actually within 2/10,000 in. Such precision obviously calls for laboratory control of a high order, and in fact the laboratories comprise a separate building of substantial size, recently much enlarged by the addition of a new wing.

The activities of the laboratories are about equally divided between routine control and research. Routine control takes care of raw, recovered and constructional materials (of so meticulous an order that every piece of stainless steel is spectroscopically inspected for total absence of free iron before being allowed to be used in any part of the plant) and also of the finished film, as to both its surface and its bulk properties.

The research projects are directed towards studying existing and possible new film-forming polymers and new and existing surface coatings, towards improving production methods, and towards devising specialised instruments or plant improvements.

Not only photographic but "commercial" film base is prepared at the factory, the latter of a less precise and less expensive kind for packaging and laminating purposes. Annual output of both kinds at the present time is of the order of twenty-nine million ft.

BIRTH

BRUDNEY. — Recently to Mrs. Brudney, wife of Dr. N. Brudney, B.Pharm., Ph.D., M.P.S., A.R.I.C., 5447 Rue Lavoie, Montreal, P.Q., Canada, a son, Mark Lyon.

MARRIAGE

McILVENNA—LAWTHER. — At Ballynafeigh Methodist Church, Belfast, Northern Ireland, on June 25, Robert Lewis McIlvenna, M.P.S.N.I., 93 Rosetta Road, Belfast, to Margaret Lawther, St. Jude's Crescent, Belfast.

DEATHS

CRISP. — On June 9, Mr. Edward Crisp, M.P.S., Rigilbick, Beacon Gardens, Crowborough, Sussex, aged eighty-one.

DALE.—At his residence, the Medical Hall, Dromore, co. Down, on June 20, Mr. James Dale, M.P.S.N.I. Mr. Dale qualified in Dublin in January 1903 and registered with the Pharmaceutical Society of Northern Ireland in January 1926, carrying on business for many years at Dromore.

DURANT.—At the Central Middlesex Hospital, London, N.W.10, on June 27, Mr. Frank de Carteret Durant, aged fifty-five. Mr. Durant was sales manager of C. L. Bencard, Ltd.

ELLIOT.—On June 19, Mr. Edward Scott Elliott, M.P.S., 130 Northcote Road, Clapham Junction, London, S.W.11. Mr. Elliot qualified in 1922.

GORST. — Recently, Mr. William Gorst, M.P.S., aged eighty-three. Mr. Gorst had been connected with Lees, Ltd., Wem. Shropshire, for over thirty years.

HUGHES.—In hospital at Pwllheli, Caernarvons, on June 26, Mr. W. D. Hughes, aged seventy-four, A native of Deiniolen. near Caernarvon, Mr. Hughes qualified as a chemist and druggist in 1923 and was in business in Caernarvon for thirty years.

JONES. — On May 20, Mr. John Jones, M.P.S., Pen-y-lan, Aberthin, nr. Cowbridge, Glam, aged eighty-nine.

RABJOHNS.—On April 23, Mr. William Thomas Rabjohns, M.P.S., Dacre Works, Brooklands Road, Weybridge, Surrey. Mr. Rabjohns, who qualified in 1928, was sales director of Lawes Rabjohns, Ltd., Weybridge.

STOKES.—On June 24, Mr. William Ewart Stokes, M.C., M.P.S., Kedleston,

A r u n d e l Avenue, Ewell, Surrey, aged sixty-four. He saw service in France in the 1914-18 war in the City of London Regiment, 20th Royal Fusiliers, attained the rank of lieutenant. and was awarded the Military Cross. He qualified in



1920 and, after periods of retail management at Burton-on-Trent and part-

time lecturing in pharmacy, joined Thornbers (Chemists), Ltd., Accrington. In 1933, when the Taylor group of companies was undergoing reorganisation, culminating in the merger with Timothy Whites in 1935, Mr. Stokes transferred to the group, and gave service in various capacities including district manager, and later territorial general manager, in Manchester, Leeds, Portsmouth and London. He general Manchester, was ultimately appointed a director and the superintendent chemist of the parent company, Timothy Whites & Taylors, Ltd., and a director of three of the subsidiary companies. In anticipation of the passing of the National Health Service Act in 1948, Mr. Stokes was made chief pharmacist, and given the main responsibility for reorganising and developing the dispensing services of the retail branches in the associated companies of the group, and in pursuance of that task he travelled extensively over the country. He also took a keen interest in the company's registered pupils, and encouraged a regular system of instruction for them. Mr. Stokes gave many years' service as Company Chemists' representative on the Central N.H.S. (Chemist Conon the Central N.H.S. (Chemist Contractors) Committee where his good counsel and sound judgment were generally recognised. He was a member of the Pharmaceutical Whitley Council, the Joint Pricing Committee for England, and the London and Surray Pharmaceutical Committees and Surrey Pharmaceutical Committees and (1949-54) of the Pharmaceutical

Society's Statutory Committee.

Mr. R. W. Gillham writes: Mr.

Stokes was a welcome, if not very frequent, speaker at local branch meetings, where his pleasant personality deep knowledge, and interesting presentation of N.H.S. affairs were always appreciated. Singing was one of his private interests, and his bass voice assisted his local church and festival choir for many years. A serious illness in the autumn and winter of 1956-57 curtailed his activities for a time, but he had since resumed most of his former responsibilities. At the time of his death Mr. Stokes was senior deacon at Ewell Congregational Church, where the funeral service was held on June 27, attended by representatives from the many pharmaceutical organisations in which he was interested. His sudden death is a grievous loss to the company he served and to his many friends. He leaves a widow, a married daughter and a very young granddaughter.

SYKES. — Recently, Mr. Charles David Sykes, O.B.E., Church House, Belbroughton, aged eighty-three. Mr. Sykes was a former director of Albright & Wilson, Ltd., Oldbury, Birmingham, which he joined in 1898 as an assistant research chemist, later becoming works manager.

PERSONALITIES

MR. A. C. CANNON, M.P.S., has been approved by the Queen (as Sovereign Head of the Order of St. John) for admission to the Order as Serving Brother, Mr. Cannon has been associated with the Truro Ambulance Division for the past fifteen years as vice-president and president, and is also

the honorary secretary of the Cornwall St. John/Red Cross Society Joint County Committee. He took first-aid lectures fifty years ago, and has maintained his great interest in the work of the Order ever since. He was largely instrumental in the formation of an influential committee of "Friends of St. John." and received a vellum vote of thanks from the Order in 1955. Born at Quethiock, near Liskeard, Mr. Cannon, who resides at Formeth, Falmouth Road, Truro, has been in practice in Truro since 1914. He has been a member of Cornwall Executive Council since its inception, and before that of the National Health Insurance Council and he has been a member of Cornwall Pharmaceutical Committee for nearly forty years, and its secretary for the past ten years.

MR. L. R. G. NORFORD, who has been appointed associate director and

joint secretary of Aspro-Nicholas, Ltd., started in the company's advertising department in 1935. After serving with the minesweeping and anti-submarine services during the 1939-45 war he returned to the company where in the next six years



he rose from assistant advertising manager to overseas division manager and export sales manager. While he was in charge of the United Kingdom export division of the company great strides were made in the development of overseas markets particularly in the Middle East, West Africa and India.

BUSINESS CHANGES

TOWER PILL AND TABLET CO., LTD., have removed to 6 Cole Street, London, S.E.1 (telephone: Hop 1229).

MR. MICHAEL CROWE, M.P.S., has acquired the pharmacy of Mr. W. A. Main, M.P.S., 96 Northwold Road, London, E.5.

NEW Scottish headquarters for Boots Cash Chemists (Northern), Ltd., were opened at 5 Melville Crescent, Edinburgh, on June 24.

Appointments

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10, state that Mr. William Kirk, who has been representing the company in Glasgow, has been promoted area manager for Scotland.

UNITED CHEMISTS ASSOCIATION, LTD., Cheltenham, have appointed Mr. R. S. James representative in their S.W. England area (Cornwall, Devon, Dorset, West Hampshire and Channel Isles). Mr. James has represented the company in Lancashire for the past ten years.

N.H.S. STATISTICS

In Anglesey during 1957-58 pharmaceutical services cost £69,021.

COMPANY NEWS

Previous year's figures in parentheses

ASPRO-NICHOLAS, LTD. — Mr. L. R. G. Norford has been appointed associate director and joint secretary of the company (see also p. 6).

W. H. LEGAT, LTD., Bolton. — Messrs. Robert W. Vanston (manager) and John Ray (sales representative) have been appointed directors.

ALLEN & HANBURYS, LTD. — Mr. E. K. Samways, B.Sc., B.Pharm., F.P.S., F.R.I.C., has been appointed a director.

MATTHEWS & WILSON, LTD. — The former board of directors has resigned. The new directors are Messrs. G. O. Woodward and W. M. Woodward.

EDWARD TAYLOR LTD.-Net profit for year to March 31, is £15,666 (£10,752) and dividend $7\frac{1}{2}$ per cent. (£243,379) (5217,500) Current assets, £243,379 (£217,509), liabilities, £64,969 (£49,838).

VIROL, LTD.—An unchanged dividend of 30 per cent. on the Ordinary capital for the year to March 31. is declared. After a lower tax charge, the group profit shows a reduction at £126,346 compared with £138,782.

ASCOTTS PHARMACIES, LTD. No Ordinary dividend for year ended September 30, 1957 (same). Preference dividend paid. Consolidated net profit £14,254 (£8,624), after tax of £15,280 (£11,753). Deduct expenses in connection with offer for charge pil (£1004): tion with offer for shares nil (£1,004); forward, £23,726 (£11,485).

LAPORTE INDUSTRIES, LTD. Mr. J. L. Harvey has been elected chairman of the subsidiary, Fullers' Earth Union, in place of Mr. L. P. O'Brien, who has retired from the board of that company. Mr. O'Brien remains chairman of Laporte Industries, Ltd., of which company Mr. Harvey is also a director.

HODDERS, LTD.—A final Ordinary dividend of 35 per cent. is being paid making an increased total dividend of 45 per cent. $(42\frac{1}{2})$ per cent. including a special bonus of 5 per cent.). Group net profits were £72,173 (£54,028). A one-for-one capitalisation issue Ordinary shares is proposed.

LAPORTE INDUSTRIES, LTD.— The annual statement by the chairman (Mr. L. P. O'Brien) mentions that the next major item on Laporte Chemicals, Ltd.'s, development programme is to design and erect a plant for the manufacture of sodium chlorite. Trading conditions for the whole group are less favourable, but the subsidiaries are well equipped to take advantage of any opportunities which may arise.

GLAXO LABORATORIES, LTD., and ALLEN & HANBURYS, LTD.— In order to achieve a closer working arrangement between the two companies Mr. H. W. Palmer (managing director, Glaxo Laboratories, Ltd.), has been appointed to the board of Allen and Hanburys, Ltd., and Mr. C. W. Maplethorpe (managing director, Allen & Hanburys, Ltd.), to the board of Glaxo Laboratories, Ltd.

CARNEGIES OF WELWYN, LTD. -Mr. John Carnegie has joined the board of directors and Mr. R. W. Unwin (sales manager) has been appointed sales director. Mr. H. F. Berkelmans, who shortly completes thirty-nine years with the company, comes on to the board as works director. The company's research and development department has been reorganised under Professor G. Lock.

CIBA, LTD., Basle.—Dr. R. Käppeli (chairman) said at the annual meeting recently that it was often asked why the company persistently adhered to the principle of financing extensive development projects, particularly abroad, out of its own resources, even when circumstances would permit approach to the money market. To a certain extent the question was justified, but it did not take into account the fact that their factories abroad were not entirely independent units, but part of a whole. The consequence was that outsiders could only be induced to risk their capital to a limited extent. On the company's increased pharmaceutical turn-

over, Dr. Käppeli said it was mainly based on increased sales of the European and Latin American concerns in spite of very keen competition. Demand also expanded in Asia, principally from India. Japan and the Middle East. In Africa and Australia little change was noted. Taking the various groups of preparations, those developed for the treatment of arterial hypertension were the most successful. Business in cosmetics developed satisfactorily during the current year. Italy, Switzerland and India continued to be the most important markets.

OVERSEAS VISIT

MR. ERIC TURNER (sales supervisor in Australia of Benger Laboratories, Ltd.), has been visiting the company's headquarters at Holmes Chapel, Ches. He returns shortly to Australia via Canada, where he will spend a week with the company's acting Canadian manager.

IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

CAPTAIN R. A. PILKINGTON asked the Minister of Labour on June 28 the percentage increases in the retail price index since August 1951 and in actual

earnings since that date.

The MINSTER OF LABOUR (Mr. Iain Macleod), replied to the first question nearly 32 per cent. Half-yearly inquiries covering manual wage earners in manufacturing industries generally and in a number of the principal non-manufac-turing industries showed that in October 1957, the average weekly earnings per worker had risen by 50.5 per cent. since October 1951. Figures for dates later than October 1957 were not avail-

First-aid in Factories

In a written reply on June 25, the MINISTER OF LABOUR stated he hoped to make a new First-aid in Factories Order, and publish a new first-aid leaflet before the end of the year.

Shops and Offices

MR. W. E. PADLEY asked the Home Secretary when he expected to introduce legislation to provide for the health, welfare and safety of workers in shops and offices on the lines recommended by the Gowers Committee and when he expected to reintroduce the Shops Bill.

MR. R. A. BUTLER said he had no statement to make except that he had those matters in mind.

K.I.D. Drugs

MR. J. W. Snow asked the President of the Board of Trade on June 26 to examine the legislation and the Key Industry Duty payable on steroid hormones, certain antibiotics and vitamins in order to ensure that prices charged to the National Health Service were reasonable and made controllable by varying that duty in the light of recent pharmaceutical discoveries and productions in the United Kingdom and else-

where.

SIR D. Eccles said he would consider applications by users for a change in K.I.D. of any of those drugs.

Mr. Snow stated he had asked the question in order to draw attention to the fact that it might be possible to control the high cost of certain drugs

in that way.

SIR D. ECCLES: The Key Industry
Duty will lapse at the end of this year and will be embodied in the new tariff schedule [see p. 8], in which case charges can be made in a more simple manner.

Poliomvelitis

MR. DEREK WALKER-SMITH informed MR. C. R. HOBSON on June 30 that in 1947 the attack rate of paralytic poliomyelitis per 100,000 at ages 1-4, 5-9 and 10-14 were respectively 35·2, 21·6 and 8·6. The death rate over all age groups was 8 per 100 cases.

On the same day Mr. AWBERY asked the Minister of Health if the supply of poliomyelitis vaccine was now sufficient to meet the requirements; and, in view of the doubt existing in the minds of people with regard to the use of Salk vaccine, whether he was still satisfied that the vaccine coming from the United States of America and Canada which was not re-tested in this country was perfectly safe and could be used with confidence when the British vaccine was not readily available.

Mr. Derek Walker-Smith: answer to the first part of the question is "Yes." In regard to the rest, I have always made it clear that no vaccine can be guaranteed to be wholly free from risk and so the question of absolute safety does not arise.

Transistor Hearing Aids

Mr. EDWARD Evans asked a question about the clinical trials of the new Medresco transistor hearing aids.

MR. DEREK WALKER-SMITH in a written reply stated that the full-scale clinical trials which were held last year with 400 patients showed that the aid was generally satisfactory but that the microphone should be improved and clothes rub reduced. Those and other minor improvements were made and the production samples were acceptable. Production had started.

NEW CUSTOMS TARIFF

An early edition for importers

ADVANCE editions of a new Customs and Excise Tariff which comes into force on January 1, 1959, are being issued shortly (H.M. Stationery Office, 12s. 6d.), to give traders an opportunity to familiarise themselves with its contents. As previously announced (C. & D., June 14, p. 625), Britain is to use the Brussels Classifor External Trade. nomenclature chapters are arranged in sequence, commencing with animal and vegetable products, proceeding through raw materials and semi-manufactured goods to manufactured articles classified in chapters according to the substance of which they are made, or, in other cases, according to distinctive trade groups. On the basis of that system, all protective and revenue duties are set out in a comprehensive Schedule in Part 3. The new tariff includes alongside the tariff headings a "Statistical Key" giving the statistical code number and the appropriate unit of quantity. It should simplify the making of customs entries, as importers and agents will no longer have to refer to an Import List as well as to the Customs Tariff.

Whereas, too, it is at present necessary to include in entries three descriptions of imported goods (technical or trade name, official Import List description and tariff description) it will be sufficient, when making entry under the new tariff, to give a single description of the goods together with the appropriate tariff item number and the statistical code number. The introduction of the combined list will not lead to any changes of substance in the statistical headings, and the trade statistics will continue to be published on the basis of the existing classification (Standard International Trade Classification). The order of items in this classification differs from that of the Brussels Nomenclature and it is therefore intended to publish separately a statistical Key which will be in S.I.T.C. order, and will enable particular items for which trade figures will be available to be identified. The order and grouping of items in this Key will remain the basis of the monthly Trade and Navigation Accounts and also of the Annual Statement of Trade.

In order that importers, forwarding agents, and Customs officials may obtain practical experience of the new before it comes into force, a scheme, to be known as the "trial run," will operate from September 1. Under the scheme, the importer or agent, when making entry under the current tariff, will also complete and attach a special form, C. & E. 936, showing the tariff item, the description and the statistical code number of the goods under the new tariff. That form will be checked by the Customs and returned to the importer or agent. Further forms need not be completed for later importations of identical goods. The scheme is voluntary, but the Customs hope that importers and agents will co-operate in it in order to facilitate a smooth transition from the old system to the new.

TRADE NOTES

Discontinued.—Lederle Laboratories Division of Cyanamid of Great Britain, Ltd.. Bush House, Aldwych, London, W.C.2. announce that Aureomycin dental paste has been deleted from their price list and catalogue.

Quantity Discount. — William R. Warner & Co., Ltd., Eastleigh, Hants, announce that, from July 1, they are altering the quantity discount to 5 per cent. on all orders of £10 and over, exclusive of purchase tax. Other terms of business remain unchanged.

Pack Change. — Duncan, Flockhart & Co., Ltd., 16 Wheatfield Road, Edinburgh, 11, announce that Trophenium brand phenacyl homatropinium chloride is now available only in boxes of six 20-mil injection-type vials, each containing 1 gm. of Trophenium. Supplies may be obtained from wholesalers.

United Kingdom Agents. — F. G. Hughes & Co., Ltd., Plantation House, Mincing Lane, London, E.C.3, have been appointed agents for the United Kingdom for the sera and vaccines manufactured by the Serum Institute Kalinovica, Zagreb, Jugo-Slavia, Messrs. Hughes are arranging for supplies of the Jugo-Slav products to be available to the veterinary profession in Great Britain through usual veterinary wholesalers.

Christmas Trade Shows. — The Roberts Windsor Soap Co., Ltd., Windsor, is introducing the company's Christmas gift lines at a series of trade shows as follows:—

NOTTINGHAM: Regency room, County Hotel, July 15-18.

Bristol: Room 47, Royal Hotel, August 25-29.

LIVERPOOL: 146 bachelor suite, Adelphi Hotel, August 25-29.

LEEDS; Wharfedale room, Queens Hotel, September 1–5.
BIRMINGHAM: Westminster suite 3, Grand

Hotel, September 8-12. MANCHESTER: Room 333, Midland Hotel, Sep-

tember 8-12.

GLASGOW: St. Enoch's Hotel, September 8-12.

CARDIFF: Room 65, Royal Hotel, September 8-12.

NewCastle-on-Tyne: Globe room, Royal Turks Hotel, September 15-19.

EDINBURGH: North British Hotel, September 15–19.

Brighton: First floor room, Grand Hotel, September 22–26.

Bonus Offers

OPTREX, LTD. (distributors: Keldon, LTD., Wadsworth Road, Perivale, Middlesex). Optrose rose-hip syrup with glucose. Twelve bottles invoiced as eleven. On initial orders.

ROBERTS WINDSOR SOAP CO., LTD., Windsor, Berks. Liquid Derbac, Derbac soap and Derbac medicated shampoo. 5 per cent. stocking bonus offer closes July 31.

JAMES NORTH DISTRIBUTORS, LTD., 54A Tottenham Court Road, London, W.1. Glovelies. One free pair with every doz. Glovelies or Northands on minimum 3-doz, order. During July.

INFORMATION WANTED

The Editor would appreciate information about the following:

Stereoplast dressing Ciro suspensory bandages

NEW PRODUCTS

Available for Trial.—The pharmaceuticals division of Imperial Chemical Industries, Ltd., Fulshaw Hall, Wilmslow, Ches, announce that they are making available for clinical evaluation and trial Tenormal pempidine tartrate. The product, which is being marketed shortly, was developed in the pharmaceutical division's research laboratories. It is described chemically as 1:2:2:6:6-pentamethylpiperidine hydrogen tartrate. The compound has shown promise as a potent ganglion-blocking agent suitable for the control of hypertension when given orally. Tenormal is available in tablets of 5 and 10 mgm.

Piglet Anæmia Treatment. — The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, announce the introduction of a new iron injection for the prevention and treatment of piglet anæmia. Marketed under the trade name Myoferrin, the new preparation provides 200 mgm. of iron in each 2-mil dose. The makers, with nearly three years of research and field trials behind them, claim that one injection of Myoferrin completely protects the piglet against both primary and secondary outbreaks of anæmia. The product is packed in a 20-mil vial (sufficient to treat ten piglets).

A New Antitussive.—Ciba Laboratories, Ltd., Horsham, Sussex, are marketing a new antitussive, Tessalon, anæsthetic substance with a unique mode of action as a cough depressant. Tessalon is understood to reduce the sensitivity of the pulmonary stretch receptors which form the starting point of the cough reflex. It has the secondary effect of depressing the transmission of afferent cough impulses through polysynaptic ganglia. The mechanism of action of the product is therefore quite different from that of the alkaloidal cough depressants such as codeine, heroin and pholcodine. Chemically Tessalon is nonaethylene glycol monomethyl ether p-n-butylamino-benzoate. It is not related chemically to any other cough depressant, but is a derivative of the local anæsthetic amethocaine. Tessalon is indicated in circumstances where the suppression of coughing is considered clinically desirable. It is available as 100-mgm. Perles in containers of twenty-five, 100 and 500.

Oral Ganglion-blocking Agent. -Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, Essex, announce the introduction of Perolysen brand pempidine tartrate, a new oral ganglion-blocking agent synthesised in the company's research laboratories. Clinical studies have shown, they claim, that Perolysen is effective, safe and manageable as a hypotensive drug: it has an activity resembling that of mecamylamine and is devoid of other pharmacological actions in the clinically used dosages. After oral administration Perolysen is fairly rapidly and completely absorbed. It has a moderate duration of action (5-8 hours), and is completely and fairly rapidly excreted in the urine. The main indication of Perolysen is in the management of selected cases of hypertension, particularly severe essential and malignant hypertension. The packs are containers

of fifty and 500 5-mgm. and 10-mgm. tablets. The product is exempt from the poisons regulations but at the moment is subject to purchase tax.

Vitamin B₁₂-peptide Complex.— The Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 24, announce that, after successful clinical trials in the treatment of pernicious anæmia with experimental material (Laurent 1988). experimental material (*Lancet*, 1958. 1. 982) a new product, Distivit vitamin B₁₂-peptide complex has been manufactured on a commercial scale and is now freely available. An original product of the company's research, it is a peptide complex of vitamin B₁₂ derived deep-fermentation culture of suitable micro-organisms (not a mixture of cyanocobalamin wih an intrinsic factor or other absorption additives). The potency of the product is expressed in terms of combined vitamin B₁₂. The packs are a tube of twenty-five and a bottle of 100 20-microgm. tablets and bottles of 100 and 500 100-microgm. tablets.

Dequalinium Pessaries. — Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have added Dequadin pessaries to their range of preparations of Dequadin chloride antimicrobial agents (effective against nearly all the bacteria pathogenic to man and against yeast-like fungi, including Candida albicans). Dequadin pessaries are specifically indicated for the treatment of monilial infections; and are claimed to provide prompt symptomatic relief in trichomonas vaginitis and to be invaluable in the treatment of mixed infections.

Dequadin has a marked antipruritic effect that is particularly useful in all cases of vaginitis in which itching and discomfort are present. Each pessary contains 10 mgm. of Dequadin (dequalinium) chloride in a bland non-irritating base which speedily disintegrates within the vagina and disperses the active ingredient over the affected arca. Dequadin pessaries are supplied in box of thirty, each box containing a special applicator. One pessary is inserted as high in the vagina as possible night and morning. The pessaries are odourless, non-greasy and non-staining.

Nematodiriasis Again. — The Wellcome Foundation, Ltd., 183 Euston Road, London, N.W.1, point out that nematodiriasis, which lapsed in importance after 1953, when it appeared as a serous epidemic in counties along the Anglo-Scottish border, has again assumed major proportions and has apparently extended the area of its attack. Within the past month farmers along the whole length of the borders, and in Montgomeryshire and elsewhere, have seen their lambs passing in a few days "from healthy youngsters into emaciated specimens with severe diarrhea leading to high mortality." The company's speciality Frantin (bephenium embonate), was, in experimentally infected lambs shown to be capable of killing not only adult worms but also larval stages (see C. & D., March 15, p. 287). Against the possibility of just such another outbreak of the disease, the company developed the drug in a form suitable for use in the

field and Frantin was thus available when the disease reappeared in virulent form less than a month ago. A recent survey in the border counties has shown the drug to have effected cures in a majority of the cases treated.

Anæmia in Pigs.—Benger Laboratories, Ltd., Holmes Chapel, Ches, announced the launching of a new antianæmia product for pigs on July 1. Known as Imposil, the new product is a brand of ferri-microdex (micromole-



cular dextran complex). It contains 50 per cent. more iron than the Benger product it succeeds. With one 2-mil injection of Imposil, each three-day-old piglet now receives 150 mgm. of iron, which is fully absorbed and utilised. A 50-c.c. (25-dose) and a 20-c.c. (10-dose) packs are available.

NEW KODAK CAMERAS

Models with flash contacts

A NEW Brownie flash-B camera, the latest in the range, incorporates a feature new to box Brownies — a two-speed shutter, with speeds of 1/40 and 1/80 sec. and a brief-time setting. The shutter helps to avoid the risk of over-exposing high-speed films such as Tri-X in taking outdoor pictures. A built-in exposure guide on the side of the camera indicates the correct shutter speed for use with Verichrome Pan, Tri-X and Panatomic-X films under various lighting conditions. The camera takes eight $2\frac{1}{4}$ x $3\frac{1}{4}$ in. pictures on 620 film, and is equipped with flash contacts to take the accessory Brownie Flasholder, has a built-in cloud filter and close-up lens and two brilliant reflex waist-level viewfinders for hori-

zontal and vertical pictures. The Brownie flash-B camera can, of course, be used with Kodacolor film to take colour pictures (outdoors in sunshine; indoors with flash-holder and clear flash-bulbs).

A new Brownie Cresta II camera has features likely to make it even more popular among snapshotters than its predecessor. It has flash contacts to take the Brownie Flasholder (takes capless flashbulbs without the need for an adaptor), and its non-slip vertical and horizontal ribbed panellings enable the snapshotter to hold the camera in a firm grip. The Cresta II takes twelve 2\frac{1}{4}-in. sq. pictures on film 120.

The Kodak 66 camera is a new streamlined folding camera that takes

twelve $2\frac{1}{4}$ -in. sq. pictures on film 120. Two basically similar models differ mainly in lens and shutter equipment. The model II has a Lumenized Kodak Anaston f/6.3 lens, focusing from $3\frac{1}{2}$ -ft. to infinity, and Vario three-speed shutter. The model III has Lumenized Kodak Anaston f/4.5 lens, also focusing from $3\frac{1}{2}$ -ft. to infinity, and five-speed Volio shutter and double-exposure prevention device. A protruding indicator shows whether the film has been exposed; another indicator reminds the user what film he has loaded in the camera. Both models are equipped with flash contacts to take the Kodak flasholder model II or Kodablitz flasholder. The manufacturers are Kodak, Ltd.. Kingsway, London, W.C.2.



Brownie Flash-B



Brownie Cresta II



Kodak 66

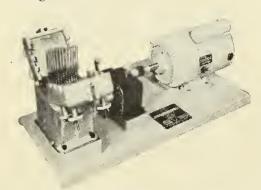
CHEMICAL PLANT ON SHOW

First exhibition of its kind in Britain

SPEAKING at the opening of the Chemical and Petroleum Engineering exhibition at Olympia, London, on June 18, Mr. H. W. Fender (chairman, British Chemical Plant Manufacturers Association), said "This is the first exhibition of its kind to be held in Britain; it may be the first in the world devoted to chemical plant . . . and equipment for obtaining crude oil and refining it." There were nearly 300 exhibitors showing a range of equipment which extended from items for the laboratory bench to a huge benzole distillation column. The exhibition closed on June 28.

Among the exhibitors were GRIFFIN & GEORGE, LTD., Alperton, Middlesex, who exhibited for the first time the Griffin-Raleigh water deioniser, a mixed resin ion-exchange unit designed for regeneration in situ incorporating builtin conductivity indicator with A.C.

bridge circuit.



The Apex 192 general pumping unit for use in research and process departments.

Molecular distillation by high vacu-um is a technique which is being used more and more by industry for the purification or separation of heat sensitive low vapour pressure materials of high molecular weight such as vitamins, essential oils, fatty acids and some petroleum derivatives. Speedivac stills made by EDWARDS HIGH VACUUM, LTD., Manor Royal, Crawley, Sussex, operate on the wiped wall principle and the prototype model shown at the exhibition had a 2 in diameter had and hibition had a 2 in, diameter body and a capacity of 250 gm. per hour. The pumping system comprises a 1 in. oil diffusion pump complete with isolation and control valves backed by a twostage rotary vacuum pump having a special oil-re-circulating device which enables a high vacuum to be maintained even with grossly contaminated oil in the pump box. Distillation can be carried out at a high vacuum, residual air about 0:001 mm. Hg. or less, or at a moderate vacuum below 1 mm. Hg. Throughput is 400 mils per hour depending on type of operation, the molecular weight of distilled material and the temperature of the distillation. Production models are expected to be ready in six months.

A large vacuum shelf dryer (C 51) six-trays, was exhibited by CALMIC ENGINEERING CO., LTD., Crewe Hall, Crewe. Drying can proceed on five trays while the sixth is loaded as all have their compartments. It is claimed

to be particularly suitable for high moisture content and semi-liquid products and gives five to ten times faster evaporation than non-jacketed dryers. The six-compartment C3 dryer with oil recirculation heating which is recommended for granules and powders, was also shown together with laboratory models for each type. Production and laboratory models of a new high duty pressure filter were exhibited. A particular aspect of this type of filter is the easy draining without scavenger

Demonstrated by the makers. ENDECOTTS (FILTERS), LTD., 251 Kingston Road, London, S.W.19, the Endrock test sieve shaker provides by mechanical means the circular jolting action associated with manual sieving and has incorporated in the circuit a time switch that can be pre-set for tests of any duration between zero and sixty

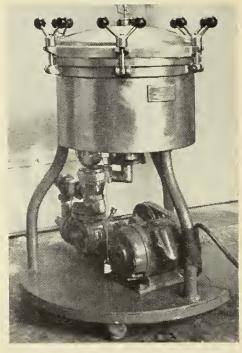
minutes.

KEK, LTD., Palmerston Street, Manchester, exhibited the Minikek grinding mill, the latest addition to their range of pin disc grinders. It is a small machine $(23\frac{1}{4} \times 15\frac{1}{4} \times 15\frac{1}{2} \text{ in.})$ and whilst primarily intended for batch work it may also be used as a production

Manesty Machines, Ltd., Evans Road, Speke, Liverpool, introduced a new drum mixer in which there is incorporated in the drum a specially designed fixed paddle. The drum is turned on a set of revolving rubbertyred rollers which are built on a floor mounted frame. The Drycota tablet machine was also shown with the new Centercota attachment which allows the coating of prepared cones. Other machines on this stand included the 35T pelleting press capable of 35 tons total pressure for tablets up to 21/4 in. diameter; and the new BB3A rotary machine with a maximum output of 2,184 tablets per minute. They also offered a comprehensive range of granulators, mixers, and coating pans. granulators, mixers, and coating pairs. Cone blenders were demonstrated by several exhibitors, among them being APEX CONSTRUCTION, LTD., 15 Soho Square, London, W.1, who showed their Y-shaped (No. 165) and STEELE & COWLISHAW, LTD., Hanley, Stoke-on-Trent, their diamond-shaped blender. Messrs. Apex Construction also demonstrated their 192

chemical pump for use in the research and process department, it is self-contained, easy to install and pumps liquids or gases without being affected by solids in solution and without risk of contaminating the fluids conveyed.

Drum mixer showing fixed paddle, lid and loeking device by Manesty Machines, Ltd.

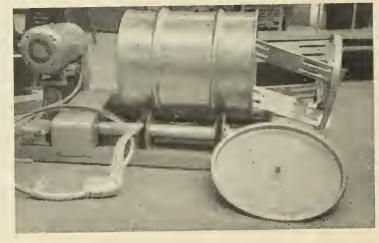


High duty pressure filter by Calmic Engineering Co., Ltd.

FAIREY AVIATION Co., LTD., who have been engaged on the development of a nuclear magnetic resonance spec-trometer showed its first production model designed to deal with certain research and general analytical prob-lems. In addition the company were demonstrating the use of the multi-purpose analogue computer in solving problems which arise in the design of

industrial plant.

Among a wide range of equipment shown by L. A. MITCHELL, LTD., 37 Peter Street, Manchester, 2, from hand or stand laboratory stirrers, now redesigned with pistol-grips and improved clamps, to the Major Mix heavy-duty mixer designed to cope with large batches of material. Neater appearance and improved air circulation were claims made for the Mitchell hot-air drying cabinet. A new vertical self-priming centrifugal acid pump constructed throughout in corundum stoneware was shown. Yorkshire Imperial METALS, LTD., Leeds, have developed a new tubing from a compound recently introduced which combines the chemi-



cal resistant properties of unplasticised PVC with a very high impact-strength making it particularly suitable for conveying corrosive liquids, etc. Known as Polyorc BH, samples were available for testing.

On the stand of KESTNER EVAPORATOR & ENGINEERING Co., LTD., 5 Grosvenor Gardens, London, S.W.1, was a double circulation climbing film evaporator of the company's latest design and suitable for use in laboratories or for small-scale production of antibiotics, pharmaceuticals, etc., which re-

quire evaporation under very low temperatures.

THOMAS BROADBENT & SONS, LTD., Central Ironworks, Huddersfield, introduced a new variable speed centrifuge (Broadbent 54, the type 58 F.B.), with labour-saving features. The machine is a suspended under-driven centrifuge with a mechanical unloading plough discharging through the bottom of the basket. The plough will empty the basket in a very short time and thus the overall time cycle is appreciably reduced, the heavy manual labour in-

volved in discharging conventional machines being eliminated. The discharge chutes open automatically at the low ploughing speed which has been selected to avoid the crystal damage encountered when ploughing at high speeds.

The major part of the output of STAINLESS STEEL VESSELS (LONDON), LTD., is supplied specially to customers' own design but a number of standard vessels such as jacketed pans of particular interest to the cosmetic manufacturer were shown.

PHARMACIES OF BRITAIN—71



A WALTON-ON-THAMES PHARMACY

Known as "Cherry's the Chemists," the premises at 77 Hersham Road, Walton-on-Thames, have been a pharmacy since 1912, though the shopfront dates to around the 1870's. The business was taken over by Cherry & Thurmott in 1935, and the present owners, a limited company, acquired the business in 1950. Though the interior has been rearranged, the exterior retains its original character.

HOSPITAL PHARMACY FORUM

NURSES AND MATERIA MEDICA

T is generally accepted by both hospital pharmacists and nurses that the pharmacist has a peculiar contribution to make to the training of nurses in instructing them in those matters that may conveniently be described as the care and custody of medicinal substances. The recent report on the Care and Custody of Dangerous Drugs and Poisons in Hospitals (the Aitken report) has underlined the importance of that function, but unfortunately has given further currency to a view expressed in the earlier Linstead report that the pharmacist is not necessarily the most appropriate person to teach the pharmacology syllabus of the General Nursing Council. It is true that nurses' interest in the subject is mainly in the administration and therapeutic actions of the drugs and in those side-reactions likely to come to the notice of the nurse in the performance of her duties. Those interests are not mutually exclusive. They fall within the province of several types of lecturer. Some parts of the subject, perhaps the most important aspects, belong properly to the realm of medical nursing; some, the purely therapeutic aspects, would best be left in the hands of a general physician. But there undoubtedly remains much that the pharmacist can probably handle better than either of those classes. The General Nursing Council has indicated that the subject of pharmacology should be taught by a professor or lecturer in pharmacology or "other expert in the subject." That would seem to indicate that the Council does not consider the sister tutor to be such an expert. The pharmacist has a basic training in physiology and pharmacology that compares closely with the doctor's, and his subsequent career is spent entirely in dealing with drugs. It is therefore not unreasonable to suppose that the pharmacist is indicated in the phrase "other expert in the subject." Indeed, a large number of pharmacists in hospitals recognised as nurse-training schools arc invited to undertake the work, and at least two have published, or have been associated with, textbooks on the subject. The time allocated in the curriculum (six hours) seems inadequate for the subject matter set out in the examination syllabus, even allowing for the fact that an elementary treatment only is necessary. The notes issued by the G.N.C. as a guide to the syllabus say "it is recommended . . . that some of these classes should be given by a recognised lecturer or by an expert in the subject, since it is obvious that the more knowledge of the subject the nurse possesses the more she will realise that accuracy is essential and that the giving of drugs is a highly responsible duty." The pharmacist, because he is necessarily the focal centre of the supply of drugs, and is in daily contact with both the prescribers and the nurses who administer them, is in an advantageous position to know which drugs are currently used, and to make the selection necessary to compress the course into the time allowed.

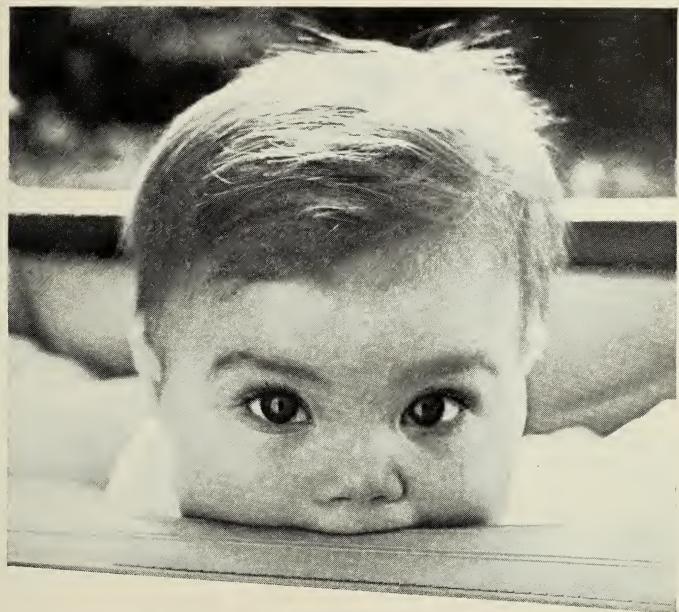
The experience of the writer, however, indicates that it is impossible to give what could be regarded as an adequate account of the drugs named in the syllabus in less than ten lectures, and even that necessitates handing over some parts to the sister tutor and leaving other parts, such as the endocrine preparations, to be covered in the physiology teaching. A useful method of approach to the subject is to use the first two lecture periods for a general talk about drugs, their origins in antiquity and their development in modern times. A word is necessary about the Pharmacopæia and its function and a short explanation of the difficulties about nomenclature. An exhibition of various types of medicament (e.g., tablets, capsules, various ointment bases, etc.), can save much verbal explanation. The succeeding period is used to outline the main purposes of the Dangerous Drugs Act, Pharmacy and Poisons Act, and hospitals precautions as set out in the Ministry's recommendations. It is more important to convey an understanding of the purposes of the legislation than to attempt to cram a lot of details to memory. After all, the responsibility for correct labelling and containers is the pharmacist's. If the nurse can be persuaded to read the labels and comply with the instructions on them much has been done to eliminate danger. In dealing with the actions of the drugs themselves it is important to remember that nurses usually have little or no background of scientific training, do not understand chemical terms and need to be reminded of the physiology they have recently been taught in order to link up the matter now being given.

It is helpful, therefore, to deal with the drugs in groups related to the main physiological functions of the body (e.g., drugs acting mainly in the alimentary system, drugs acting on the cardiovascular system, drugs acting on the central nervous system, etc.). Each section should be prefaced by a quick revision of the physiology and then only main type-drugs brought in, leaving the nurse to fit into the outline the many other drugs she will meet. For example, the lecturer having indicated the ways in which drugs affect kidney function, and having referred to those having an osmotic action in the tubule and drugs that affect glomerular filtration, the nurse should be able to refer any new drug she encounters in the ward to that pattern without the lecturer's having to attempt to deal with every drug likely to be met. A great danger is to frighten off the nurse and kill interest by "blinding her with science." Statements should be simple, without sacrificing accuracy, and examples should be frequent and drawn from common experience. An explanation of carminatives, for example, can be made interesting by a light-hearted treatment of the administration of gripe-water to a baby, or the action of drugs on the central nervous system treated by reference to the effects of alcohol. So far as the writer is aware, no discussions have ever been held between the examiners or the G.N.C. and pharmacists who have been engaged in the teaching of this material. Such discussion would be helpful, since there must be a variety of interpretations of the syllabus itself. Indeed, the same wording could be used to describe the syllabus for an honours degree in the subject. Some indication of the examiners' findings would be of immense help, both to the sister tutors and to the lecturers.

RECENT RESEARCH

INTESTINAL ABSORPTION OF INSULIN

THE finding of trypsin inhibitor in colostrum led to the hypothesis that the physiological rôle of the inhibitor is to protect the antibodies of colostrum from being digested and thus to facilitate their absorption. Evidence confirming that hypothesis has been accumulated. M. Laskowski, jun., and others (Science, 1958. 127. 115) report further experiments in rats in which solutions of zinc insulin and pancreatic inhibitor were mixed and injected into a loop of jejunum. 20 cm. long ligated at both ends. In all ten experiments a significant drop in blood sugar was observed. Ten control experiments were performed by injecting insulin without inhibitor: all results were negative. Substitution of soya bean inhibitor for pancreatic inhibitor resulted in small and non-uniform responses. Since about 80 per cent, of the inhibitor remained in the loop after four hours' exposure, the difference cannot be ascribed to the instability of soya bean inhibitor but suggests that pancreatic inhibitor partially protects insulin against destructive agents other than trypsin, whereas soya bean does not. To establish that pancreatic inhibitor protected insulin from destruction it was decided to measure the rate of destruction of insulin in vitro. Inactivation in vivo occurred too fast for convenient measurements. Therefore, to measure the rate of destruction of insulin in vitro the rate of destruction was slowed by dilution of the enzymes. The results were positive.



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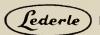
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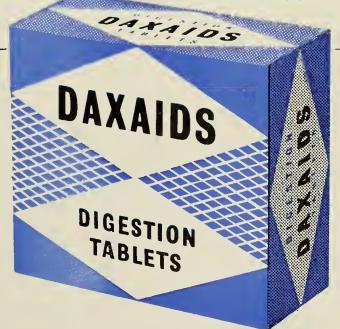
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Ten Years On

THE National Health Service, which (prompted by Beveridge) grew from National Health Insurance by public clamour for a more enlightened social service, is ten years old on the date this issue bears. Many of our readers may recall the hopes and fears they entertained prior to its inauguration on July 5, 1948.

Though but a short time in the tally of history, the past ten years have nevertheless had a profound effect on all pharmacists in these islands. During that time a scientific revolution in medicine has been taking place at an ever-increasing rate, and the pharmaceutical industry of this and other countries has provided the medical profession with an unsurpassed range of specific remedies, most of them of a highly complex nature. We recall a recent statement (see C. & D., May 10, p. 498) by Dr. T. H. M. Kerfoot (president of the Association of British Pharmaceutical Industry) that, of the drugs in common use today, about 90 per cent. were unknown twenty years ago, and a great many were unknown when the National Health Service was started.

Unfortunately the achievements of the industry are not always appreciated by those outside, and the "drug bill" has become a political issue and catch phrase that has tended to obscure many of the benefits of the Service. On the industry has fallen much criticism that should have been directed at the persons responsible for the original unrealistic estimates of what the Service was going to cost. In accordance with Parliamentary procedure there have been formed various committees charged directly or indirectly with solving the cost problem, and their findings have usually been at the expense of the pharmaceutical industry.

The results of the industry's activity and increasing competition have been experienced by the pharmacist in the dispensary. Milligrams and mega units have become much more a part of his working day than would ever have been presupposed, whilst pharmacognosy tends to become more and more academic. Nevertheless, and perhaps even in greater measure, the pharmacist remains the guide of the medical practitioner.

One creditable fact that is apt to be overlooked is that pharmacists were the first—and at the time the only—professional group to give National Health Service, when it was introduced, their full co-operation, and they can rightly claim to have contributed substantially to any success that is to be attributed to the Service. At the moment much of that success cannot be meas-

ured by the yardstick of accountancy, though undoubtedly it will sooner or later come within the province of the actuary.

If we can make a plea on this tenth anniversary, it is to the politicians, to whom we say "Stop making the Health Service a platform for political propaganda, and let those connected with it have a period of stability during which to consolidate the achievements of its first decade." That will ensure continued and orderly progress in the future to the realisation of a noble ideal and the full reward from a courageous undertaking.

Delayed Legislation

At the head of the Statutory Instruments Nos. 1015 and 1016 which were issued this week appeared the legend:

Made 16th June, 1958 Laid before Parliament ... 26th June, 1958 Coming into Operation ... 1st July, 1958

Thus, in a little more than a fortnight, parliamentary procedure has been complied with and the law relating to poisons has been changed. That could possibly imply some urgency about the amendments but this was not so. It is over twelve months (see C. & D., February 16, 1957, p. 175 and November 20, 1957, p. 577) since some of the proposed changes were announced. If the delay has been caused by the Poisons Board's revising some of its original ideas, then surely it would have been possible to issue Orders on the agreed items and thus avoid confusion, doubts and misapprehensions. Whilst there has been delay in producing the new amendments, they allow only three days for manufacturers to amend their packs and print labels-which is so inadequate as to be absurd. Furthermore, the Rules just issued are the eighth set of amendments to the original 1952 Rules. Consolidation is overdue.

Overseas Trade in May

THE strike in the London docks, which began on a limited scale in the middle of May, did not seriously affect the May trade figures. In exports the effect was

EXPORTS						VALUE
Drugs, medicin	ies, n	nedicin	al pr	ерага	tions	£
(total)		• • •				3,075,878
Vitamins					• • •	205,481
Penicillin salts						153,254
Penicillin injec	ctions				• • •	51,066
Penicillin table	ets, oi	ntment	s, etc.		• • •	98,973
Antibiotics of	her tha	in pen	icillin			336,169
Quinine						13,052
Alkaloids, exc	luding	quini	ne			93,009
Aspirin						100,271
Antihistamines						37,578
Antipaludics						44,900
Barbiturates						44,911
Liver extracts						19,449
Ointments and	d linin	nents				83,634
Insulin						27,302
Sulphonamides	S					83,316
Proprietary me	edicine:	s				902,768
Other medicin	ies, un	classifi	ed			762,216
Glycerin						51,061
Acetone						23,578
Citric acid						45,679
Salicylates						9,490
Perfumery and	toilet	prepar	ations			
Lipstick, face						318,620
Dentifrices						282,909
Toilet soaps						235,460
Synthetic deterge	ents	•••	***	•••	•••	510,918

	IMPO	ORTS			£
Vitamins			 	,	44,583
Antibiotics			 		33,450
Alkaloids			 		27,059
Proprietary med	icines		 		118,881
Unclassified med	licines		 		358,233
Borax			 		104,598
lodine			 		69,606
Menthol			 		17,567
Essential oils					
Bergamot			 		20,670
Citronella			 		20,505
Clove			 		1,071
Geranium			 		25,468
Lavender			 		18,495
Lemon			 		57,040
Orange			 		42,404
Peppermint			 		77,996
Unclassified			 		149,960

probably negligible, because of the longer time-interval for exports than for imports between the handling of the goods in the docks and the recording of documents in the Trade Accounts. But the June trade figures on both sides of the account are bound to be much more seriously affected, says the Board of Trade, since the docks were working only at about one-fifth the normal rate in the first half of June.

Exports of drugs, medicines and medicinal preparations at £3.07 millions were at their lowest level since August 1957. Alkaloids accounted for a somewhat higher figure than in recent months, otherwise nearly all items (see accompanying table) showed declines from equivalent April values. Purchases by the traditionally best buyers of United Kingdom prepared medicines were all down compared with May 1957. Australia's purchases were valued at £224,000, against £270,000; India's at £136,000 against £260,000 and those of the Union of South Africa at £147,000 against £161,000. The growing pharmaceutical industry in Burma is reflected in that country's purchases, which in May were valued £26,000, against £108,000 in May 1957.

On the import side prepared medicines were, at £582,206, £68,000 up on April, mainly through higher imports of proprietary medicines.

SHARE MOVEMENTS, April to June

RADING and inquiry in the industrial department of the London Stock Exchange during the second quarter of 1958 were on a larger scale, with the majority of share price movements in favour of holders. Drug company shares were again in line with the general trend.

In the highest-priced share section, Reckitt & Colman Holdings £1 closed 4s. better at 49s. 6d., trading appearing in the list of markings on every business day, with orders of some size, as a rule readily transactable, and on the basis of a narrow difference between buying and selling prices. Since about the beginning of the year, therefore, those shares have gained about 7s. Firmness was also evident in United Glass Bottle £1, which finished around 5s. 6d. higher at 31s. 9d.

In the medium-priced group, Aspro Nicholas 5s. closed 3s. better at 18s., after having established in the meantime the high level of 18s. $4\frac{1}{2}$ d. Firmness coupled with a regular turnover was also evident in Monsanto Chemical 5s., which finished 2s. better at 15s. 6d.

A good feature was Glaxo Laboratories 10s., which closed nearly 5s. higher at 39s. $1\frac{1}{2}$ d., while Boots Pure Drug 5s. finished 3s. 3d. in favour of holders at 22s. 3d. Greeff Chemical Holdings 5s. also closed about 3s. 3d. higher at 17s. 3d. Elsewhere, Borax Holdings 5s. Deferred were valued 1s. 6d. better at 17s. $7\frac{1}{2}$ d., and Ilford 5s. closed 2s. 3d. better at 15s. 6d., their highest level since the beginning of 1957.

In the same share price group, Timothy Whites & Taylors 5s. closed 1s. 7d. better at 15s. $4\frac{1}{2}$ d., and Savory & Moore 5s. 1s. 3d. better at 10s. 3d. Evans Medical supplies 5s. closed 1s. $7\frac{1}{2}$ d. higher at a new high of 8s. 9d., and F. W. Hampshire 5s., $7\frac{1}{2}$ d. better at 7s. Cussons, Sons & Co. finished without quotable alteration at 5s.

In the lowest-priced share group, Clinical and General Industries 2s., a comparatively recent newcomer to the floor of the Stock Exchange, were valued $3\frac{3}{4}$ d. better at 2s. $0\frac{3}{4}$ d. Dubarry Perfumery 1s. were unaltered at $10\frac{1}{2}$ d. A fractional movement in favour of holders was recorded in Ashe Chemical 1s., which closed at 1s. $2\frac{1}{4}$ d., and Arnold M. Gee 1s., which finished at 2s.

In the Preference share section, Allen & Hanburys 7 per cent. Preferred Ordinary closed without really quotable change at 20s. 7½d. Taylors (Cash Chemists) London 6 per cent. finished 1s. 6d. better at 18s.—a new high for 1958. Taylors (Cash Chemists) Trust 6 per cent. closed ninepence higher at 17s. 9d., thus recovering a good part of the loss they experienced during the first quarter of the year.

Name of Company	1957–1958					
£1 units unless otherwise stated	Нібн	Low	LATEST			
Albright & Wilson, 5s Allen & Hanburys 7% Prefd.	s. d. 23 10½	s. d. 16 4½	s. d. 17 1½			
Ord Ashe Chemicals, 1s	21 6 1 4	18 6 10	$\begin{array}{ccc} 20 & 7\frac{1}{2} \\ 1 & 2\frac{1}{4} \end{array}$			
Aspro Nicholas, 5s	$\frac{18}{18} \frac{4\frac{1}{2}}{3}$	$\begin{array}{ccc} 12 & 7\frac{1}{2} \\ 9 & 1\frac{1}{2} \end{array}$	18 0			
Boots Pure Drug, 5s Borax (Holdings) Defd. Ord.	$\frac{16}{24} \cdot 10^{\frac{1}{2}}$	13 9	22 3			
5s	36 6 19 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
British Drug Houses, 5s Clinical and General Industries,						
2s	$\begin{array}{ccc} 2 & 1\frac{1}{2} \\ 7 & 4\frac{1}{2} \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccc} 2 & 0\frac{3}{4} \\ 5 & 0 \end{array}$			
Dubarry Perfumery, 1s Dufay, 2s	$\begin{array}{ccc} 2 & 2 \\ 2 & 1\frac{1}{2} \end{array}$	7 6	$10\frac{1}{2}$ 10			
Evans Medical Supplies, 5s	8 9 2 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 9 2 0			
Glaxo Laboratories, 10s	43 9	23 9	39 1½			
Do. 8% Prefd. Ord., 10s Greeff Chemical Holdings, 5s.	$\begin{bmatrix} 14 & 0 \\ 20 & 7\frac{1}{2} \end{bmatrix}$	9 9	12 9			
Hampshire, F. W., 5s	7 9	6 0	7 0			
Howards & Sons llford, 5s	17 0 15 6	6 6	$\begin{array}{c cccc} 10 & 1\frac{1}{2} \\ 15 & 6 \end{array}$			
Monsanto Chemicals, 5s Potter & Clarke, 1s	19 6 1 3	$11 \ 10\frac{1}{2}$	15 6 9 ³ / ₄			
Reckitt & Colman, Holdings	51 6	39 0	49 6			
Sangers, 5s Savory & Moore, 5s	17 6 12 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$17 4\frac{1}{2}$ $10 3$			
Smith & Nephew Associated						
Companies, 4s Southalls (Birmingham), 5s	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
Taylors (Cash Chemists), London, 6% Cum. Prefd	18 9	15 3	18 0			
Do. (Cash Chemists) Trust						
6% Cum. Prefd United Glass Bottle Mfrs	19 0 41 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17 9 31 9			
Whites (Timothy) & Taylors, 5s	18 4½	11 6	15 44			
5s	$25\ 10\frac{1}{2}$	20 6	$22 ext{ } 4\frac{1}{2}$			
Yardley & Co., 4s Do. A, 4s	$\begin{array}{ccc} 25 & 0 \\ 24 & 4\frac{1}{2} \end{array}$	$\begin{array}{ccc} 21 & 1\frac{1}{2} \\ 17 & 9 \end{array}$	$\begin{array}{cccc} & 23 & 0 \\ & 22 & 4\frac{1}{2} \end{array}$			

ACKNOWLEDGEMENT: The pictures illustrating, in the C. & D. Annual Special Issue (June 28, p. 707), the making of church bells—and with slight modifications of bell-metal mortars—were taken at the Whitechapel Bell Foundry, 34 Whitechapel Road, London. E.1, and were reproduced by kind permission, and with the co-operation, of its proprietors, Messrs. Mears & Stainbank.

Ten Years of N.H.S.

F. F MARCHBANK

FROM
GALENICALS
TO
SYNTHETICS

THIS week sees the completion of ten years of the National Health Service. The structure was planned by Churchill's wartime Government, and the main outlines of the scheme were drawn up during the later war years, and brought to fruition by the Labour Government.

The Service was inaugurated on July 5, 1948, in an atmosphere of general goodwill, but clouds soon gathered as costs were seen to be much in excess of the estimates. There is no doubt that exaggerated publicity: "Here's this wonderful new Service, all free, take what you want," drew the inevitable response. Everyone, or nearly everyone, rushed for teeth, spectacles, and bottles of medicine! On the pharmaceutical side provision had been made for an increase of about sixpence in the average dispensing fee, and for a container allowance of twopence-halfpenny, but it had been assumed that frequency would not rise, and that the average ingredient cost per prescription would be no higher than under N.H.I. One or two voices had suggested (in vain) that, when mothers and children and the well-to-do generally were brought into benefit, there might well be proportionately more—and more costly—prescriptions, and so it proved.

Ministry's Failure

Prescriptions rose rapidly from the expected 140 millions per annum (England and Wales) to about 220 millions, while the average cost per prescription also increased. There was undoubtedly much over-prescribing, in the shape of too many prescriptions and the ordering of excessive quantities. The position was aggravated by the Health Ministry's failure to make provision for the systematic investigation of excessive prescribing. It will be recalled that, under N.H.I., chemists sorted prescriptions into doctor order and they were fully priced. It was easy to ascertain the prescribing costs of each doctor, and to make a detailed investigation into the prescribing of any doctor whose costs seemed unduly high. The Department, however, concluded that pricing was "unproductive labour," and insisted on introducing "average" pricing, thereby depriving itself of the only speedy and effective means of checking extravagant prescribing. It is not necessary to enlarge on the dissatisfaction with which that policy is still viewed by chemists, or its manifest inequity. It was not until, in the Minister's own words, prescribing had got "out of control" that serious efforts were made to increase pricing staffs. Eventually the Ministry had to reintroduce a large measure of full pricing. A number of cases of substantial under- and over-payment continue to come to light, and in the opinion of some experts full pricing could be operated with no larger staff than is required under the present "hybrid" system. If account were taken of the extra work imposed (a) on chemists by the complicated sorting now required, (b) on Executive Councils by the calculation needed to make the necessary payments, and (c) in other ways, the "saving" of labour in average pricing might well be found to be illusory.

For pharmacy, the most remarkable feature of the past ten years has been the passing of the era of galenical preparations and their replacement by the synthetic products of research laboratories, mainly of manufacturers. Though the change was under way before 1948, its significance, and the extent to which it would go, were not appreciated. The old galenicals rarely cured any disease. They were given to alleviate symptoms and to make the patient comfortable, trusting to Mother Nature to effect a cure. By contrast, modern synthetic drugs provide specific cures for many serious conditions that previously had high mortality rates.

The pace of research has been extraordinary, and it shows no sign of slackening. New drugs pour from the laboratories of leading manufacturers in Great Britain, the United States and elsewhere in bewildering rapidity. All are complex substances, and the cost of research and of large-scale production is high, so they are much more expensive than the older drugs. But they do cure. Many eminent medical authorities have acknowledged that, in terms of lives saved, operations and hospitalisation averted, illness shortened and early return to productive work, the new drugs repay their cost many times over.

Practically all the new drugs cmerge first as branded products, and are adopted in the British Pharmacopæia some years later. Whereas proprietary preparations accounted for only 7 per cent. of all prescriptions in the last years of N.H.I., they now represent over 43 per cent., and the proportion is growing. In most other countries the percentage of proprietary prescriptions reaches 70–90 per cent. Here the existence of the British National Formulary, and the continuous pressure on doctors to prescribe official preparations, has undoubtedly braked the increased use of proprietary products. Whether that is a good thing or not is a moot point.

Not all branded products come within the class of "miracle" drugs, but many preparations in categories 2, 3 or 4 of the Cohen Committee's classification undoubtedly represent attempts to improve on the standards or formulations of the B.P. Is it wise to stereotype manufacture and prescribing to official preparations that must inevitably lag behind the new products of the manufacturers' research laboratories?

Marginal Improvements

Advances in science and industry are not confined to occasional epoch-making discoveries. Of almost equal importance are the cumulative effects of many smaller improvements and modifications. There is no fundamental difference between the modern "Pacific" locomotive and the steam engine of 100 years ago. The one has developed from the other by innumerable small changes over the century. It seems a serious flaw in the Cohen Committee classification that it fails to recognise the existence of marginal improvements outside category I.

For the retail pharmacist it is a matter of regret that the revolution that has occurred threatens to render his professional skill in extemporaneous dispensing largely superfluous. It would be wrong to conclude that, in the future, his only responsibility will be to measure out the products of the manufacturing laboratories. The complexity of modern drugs puts them largely outside the modest knowledge of chemistry possessed by the average doctor, who tends more and more to rely on a knowledgeable pharmacist to advise and guide him through the maze of new products, and to see that he does not prescribe a toxic drug in dangerous doses.

There is little doubt that the present pace of pharmaceutical research will continue, and that new drugs will emerge to extend and consolidate the conquest of disease. There are prospects that in the not-too-distant future cancer may yield to chemotherapy, and that progress may be made on the problem of the ageing of the human frame. Those highly desirable developments may reduce the long-term cost of ill-health but they will no less certainly add to the size of the drug bill. Over that situation the pharmacist has no control, yet past experience has shown that the Government's thoughts seem to turn first, when costs rise, on how to economise on his remuneration.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 18.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

RIBOVIN

Manufacturer: Brook, Parker & Co., Ltd., Ashfield, Horton Road, Bradford, 7.

DESCRIPTION: Sugar-coated tablets each containing riboflavin, 10 mgm.

INDICATIONS: Migraine and migrainous conditions.

Dosage: Three tablets daily, followed by maintenance dose of one tablet daily.

How SUPPLIED: In containers of 100, 500 and 1,000 tablets.

FIRST ISSUED: March 1958.

REFERENCES: Brit. med. J., 1956. ii. 550. Can. med. Assoc. J., 1946. 54. 589. Brit. Encycl. Med., 1951. 114. 5

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

ARTEROCHOL

Manufacturer: Ward, Casson, Ltd., 15° Hay Hill, London, W.I.

DESCRIPTION: An emulsion containing, in each 15 mils, the essential unsaturated fatty acids present in 8.33 gm, of corn oil; pyridoxine hydrochloride, 0.6 mgm.; α -tocopheryl aeetate, 12 mgm. 1 fl. oz., three times a day, provides about 470 calories.

INDICATIONS: Hypercholesterolæmia.

Dosage: Initial dosage is dictated by the patient's condition and response and is usually within the range of one to three tablespoonfuls 1-3 times a day. Maintenance dosage is usually one-third of initial dose. Dietary measures accompany therapy.

How Supplied: In bottle containing 12 and (hospital pack) 80 fl. oz.

FIRST ISSUED: June 1958.

Notes: Commencement of treatment may be accompanied by diarrhea, eventually displaced as a result of improved absorption. Ancillary treatment by vitamin A and D supplements replaces possible dietary deficiencies.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

L-NORADRENALINE

Manufacturer: Carnegies of Welwyn, Ltd., Welwyn Garden City, Herts. (*Distributors*: Savory & Moore, Ltd., 60 Welbeck Street, London, W.1.

DESCRIPTION: An intravenous injection solution containing 1 mgm. of 1-noradrenaline per mil. An emergency injection solution containing 100 microgm. of 1-noradrenaline per mil.

1NDICATIONS: Myocardial infarction, surgical shock, phæochromocytoma, pneumonia with circulatory collapse. The emergency injection solution is indicated in sudden collapse during induction of anæsthesia, cardiac surgery; as an additional resuscitative, and for supporting cardiac massage.

Dosage: The intravenous infusion is prepared in advance and usually employed at a dilution of 4 mgm. of l-noradrenaline base per litre, with the drip rate adjusted to provide 2—4 μgm. per minute. Total dosage is determined by the clinical condition. Impalpable pulse in emergency is immediately followed by ½—¾ mil. (50—75 μgm.) of emergency injection solution of l-noradrenaline intravenously. A recordable blood pressure follows and is maintained for four minutes. The dose may be repeated and oxygen with other resuscitative measures instituted. Cardiac massage requires ½—¾ mil. of emergency injection of l-noradrenaline injected directly into the ascending aorta.

How Supplied: Snapules for intravenous infusion: In boxes of six and fifty each containing 2 mgm. in 2 mils or 4 mgm. in 4 mils; and in box of five ampoules containing 16 mgm. in 16 mils. Emergency solution for injection: In box of six snapules each containing 200 microgm. in 2 mils.

Notes: Not to be given during cyclopropane or chloroform anæsthesia

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CHOLEDYL

Manufacturerh Roussel Laboratories, Ltd., 847 Harrow Road, don, E.2.

DESCRIPTION: A syrup containing in one teaspoonful (4 c.c.) 50 mgm. of cholinetheophyllinate.

INDICATIONS: Bronchial asthma in infants and young children, mild bronchospasm, capillary bronchitis, chronic cough following severe upper respiratory tract infection.

Dosage: Children under one year: 2.5 mgm. choline theophyllinate per lb. body weight. Calculated dose given three times a day. Children of one to three years: 1—1½ teaspoonfuls three times daily. Children of three to six years: Up to two teaspoonfuls three times daily.

How Supplied: In bottle containing 4 fl. oz.

First Issued: May 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

PRECORTISYL

Manufacturer: Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10.

DESCRIPTION: Cream containing prednisolone 0.5 per cent. in water-miscible base. Lotion, containing prednisolone 0.25 per cent. in a water-miscible vehicle.

INDICATIONS: Localised pruritus, anogenital pruritus, lichen simplex (localised neurodermatitis); chronic dermatitis of the ears (otitis externa), feet and hands; contact dermatitis, cutaneous allergic disorders; hypostatie (varicose), infantile, nummular and seborrhæic eczemas.

METHOD OF APPLICATION: Apply a minimal amount with fingertip, then rub in gently three times daily until improvement occurs, then once daily or less, according to clinical progress.

How Supplied: Cream: In tubes containing 5 gm. and 15 gm. Lotion: In plastic dropper bottle containing 20 mils.

FIRST 1SSUED: May 1958.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

Notes: To be stored at room temperature (the lotion away from light). *Contraindications*: Herpes simplex. Burns with blistering.

REFERENCES: Int. Rec. Med., 1957. 170, 59. J. Amer. med. Ass., 1956. 162. 1379.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

DARTALAN tablets

Manufacturer: G. D. Searle & Co., Ltd., High Wycombe. Bucks.

DESCRIPTION: Tablets containing thiopropazate dihydrochloride (1-(2-acetoxyethyl-4-[3-(2-chloro-10-phenothiazinyl)propyl] piperazine dihydrochloride), available in two strengths, 5 mgm. and 10 mgm.

Indications: Psychotic and neurotic states such as insomniaderived agitated and anxiety states, anorexia, abnormal excitement, the psychosomatic symptoms of organic disorders such as peptic ulcer, cerebral arteriosclerosis, catatonie or paranoid schizophrenia, acute mania. Huntington's chorea, barbiturate addiction and alcoholism.

Dosage: *Psychoses*: 10 mgm. three times a day. *Neurosis*: 5 mgm. three times a day. Dosage should be adjusted to individual requirements and the severity of the condition.

How Supplied: In bottles of fifty and 500 tablets.

FIRST 1SSUED: June 1958.

Notes: Pseudo-Parkinsonism has been reported as a result of high dosages, but detailed liver studies and clinical experiences have produced no evidence of liver toxicity. No blood dyscrasias have been reported. The tablets are compressioncoated and should not be divided.

REFERENCES: Am. J. Psychiat., 1958, 114, 1034.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, June 5, 1958

ATROL

Manufacturer: Duncan, Flockhart & Co., Ltd., 16, Wheatfield Road, Edinburgh, 11.

DESCRIPTION: Tablets each containing 5 mgm. (plain) and 20 mgm. (scored) of 2-dimethylaminoethanol bitartrate (DMAE).

INDICATIONS: Schizophrenia and certain psychosomatic conditions.

Dosage: Determined by the severity of the condition and individual requirements, normally within the range 10—100 mgm. daily.

How SUPPLIED: 5-mgm. strength in bottles containing fifty or 500 plain tablets; 20-mgm. strength in bottles containing 100 or 500 scored tablets.

FIRST ISSUED: June 1958.

REFERENCES; Ann. N.Y. Acad. Sci., 1957, 66, 755; Science, 1957, 126, 610; J. Pharmacol, and Exptl. Therapy, 1956, 118, 1, 17; ibid, 1956, 118, 420; J. Biol. Chem., 1951, 189, 705; ibid, 1945, 157, 419; J. Nutrition, 1955, 56, 215.

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MAREVAN tablets

Manufacturer: Evans Medical Supplies, Ltd., Speke, Liverpool 24.

DESCRIPTION: Tablets containing warfarin sodium (3-(∝-acetonylbenzyl)-4-hydroxycoumarin) an orally active anticoagulant, effective in low dosage with moderate duration of effect. Available in two strengths, 3 mgm. blue-coloured tablets and red 5 mgm. tablets.

INDICATIONS: For short or long term anticoagulant therapy in proven or suspected cases of thrombo-embolism.

Dosage: Initially, seriously ill asthenic patients and those aged 75 years or over require 35—40 mgm.; those robust but less serious or under 75 years require 45—50 mgm. Maintenance dosage relates to prothrombin levels determined in three-day cycles by Quick's or Owren's method (see manufacturer's literature).

How Supplied: In bottles containing 100 3-mgm. (blue) and 5-mgm. (red) bisected tablets.

First Issued: June 1958.

Notes: To be used only under strict hæmatological control.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

ICIPEN V

Manufacturer: Imperial Chemical Industries, Ltd., Pharmaceuticals Division, Fu'shaw Hall, Wilmslow, Ches.

Description: Icipen V 300: Tablets, each containing the equivalent of 300 mgm. penicillin V (as potassium salt). Icipen V suspension: Presented as dispersible granules from which a suspension is prepared when water is added. Each teaspoonful (3.5 mils) of prepared suspension contains 150 mgm, of penicillin V (as calcium salt).

Indications: In treatment of all infections due to penicillinsensitive organisms; as a prophylactic against recurrent rheumatic fever and before and after tonsillectomy or tooth extraction.

Dosage: Icipen V 300: Adults: One tablet three or four times a day. Children: Half adult dose. Infants: Quarter adult dose. Icipen V suspension: Adults and Children over nine years: 2 teaspoonfuls (7 mils) or 1 dessertspoonful three or four times a day. Children (4-9 years): Half adult dose. Infants: One-quarter adult dose. Dosage may be modified to suit individual needs.

How Supplied: In tube of twelve and in bottles of 100 and 500 tablets. In bottle containing, when dispensed, 2 fl. oz. of suspension.

First Issued: June 1958.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

Notes: Prepared suspension retains potency without significant loss for at least fourteen days at a temperature not exceeding 25° C. (77° F.), provided it is within the expiry date.

REFERENCES: J. Biochem., 1948, 175, 793, Antibiotics Ann., 1955/56, 473. Wien med. Wchnschr., 1953, 103, 602.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

EPIDEXA liquid

Manufacturer: Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancs.

DESCRIPTION: A clear solution containing pentaethylene glycol ether of dichlorocresol, 3 per cent., and dodecyl-dimethyl ethoxy-methyl ammonium bromide, 1 per cent.

INDICATIONS: Epidermal and mucal mycoses, pityriasis versicolor, erythrasma, tinea pedis, tinea corporis, tinea cruris, bucco-pharyngeal and vaginal infections; bacterial dermatoses and infected ulcerations; minor surgery antiseptic.

METHOD OF USE: Simple mycoses: Apply undiluted. Dermatoses: Apply diluted 1-5 to I-10. Mucous surfaces require an application diluted to 1-10.

How SUPPLIED: In bottle containing 2 fl. oz.

First Issued: June 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

EPIDEXA cream

Manufacturer: Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancs.

DESCRIPTION: A water-miscible cream containing pentaethylene glycol ether of dichlorocresol, 5 per cent., and dodecyl-dimethyl-carbethoxy-methyl ammonium bromide, 2 per cent.

INDICATIONS: Fungal infections of the skin and nails, trichophytoses, athlete's foot. Also impetigo and pyococcal skin infections.

METHOD OF USE: Apply with gentle massage as required.

How Supplied: In tube containing approximately 25 gm.

FIRST ISSUED: June 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

EPIDEXA powder

Manufacturer: Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancs.

DESCRIPTION: A powder containing pentaethylene glycol ether of dichlorocresol, 3 per cent.; dodecyl-dimethyl-carbethoxymethyl ammonium bromide, 1 per cent.; for use in dermatology as an antimycotic and bactericide.

INDICATIONS: Prophylaxis and supplementary treatment of athlete's foot.

METHOD OF USE: Sprinkle on affected part, between the toes, and also inside socks and stockings, which should be changed daily.

How SUPPLIED: In "puffer" tin of 25 gm. (approx).

First Issued: June 1958.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, July 5, 1958

OVESTIN

Manufacturer: Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2.

Description: Tablets containing 0.25 mgm. of oestriol; an oestrogenic substance with selective action on uterine cervix, and vaginal epithelia but without endometrial effect.

INDICATIONS: Spasmodic dysmenorrhoea; vaginal and cervical lesions due to post-menopausal oestrogen deficiency (pruritus vulvae, kraurosis and non-malignant leukoplakia); vaginitis; non-malignant vaginal ulcers.

Dosage: One or two tablets to be taken daily during the second half of the menstrual cycle.

How Supplied: In tube containing twenty-five and bottle containing 100 tablets.

First Issued: January 1958.

References: Wchuschr., 1955. 33. 856. Acta eudocrinol. Supplt., 1957. 31. 31. Wchuschr., 1957. 35. 808. Deutsche med. Wchuschr., 1957. 82. 1864, 1873. Acta endocrinol., 1956. 22. 191. Wchuschr., 1957. 99. 1505. Extr. vol. Conférence, Congrès int. jubilaire Soc. fr. Gynéc (Paris, 1951).

NOTES ON NEW MEDICAMENTS

Comments on items given in Guide to New Medicaments (pp. 16-17), especially to show their relationship—pharmacological or chemical with other products or compounds.

MAREVAN. - Chemistry: 3-(a-acetonyl-benzyl)-4-hydroxycoumarin sodium. Has the anti-coagulant properties common to the hydroxycoumarin derivatives, with advantages. Soluble in water and easily absorbed, its action is prompt, and therapy is maintained by variations in dose as low as 0.5-1 mgm, daily. Side reactions are rare, and treatment is more easily controlled than with longer acting compounds. Other oral anticoagulants include dicoumarol, biscoumacetate (Tromexan), cyclocoumarol (Cumopyran), phenylpropylhydroxycoumarin (Marcoumar), nicoumalone (Sinthrome) and phenindione (Dindevan). Heparin and dextran sulphate (Dexulate) are powerful anticoagulants, but are given by injection. The action of the oral anticoagulants may be reversed by vitamin K₁; protamine sulphate is effective in checking the action of heparin, but is less reliable as a dextran antagonist.

PRECORTISYL,—Chemistry: Prednisolone. Differs from hydrocortisone only by loss of two hydrogen atoms, with formation of a double bond in the 1:2 position. That slight change in structure is accompanied by a sharp increase in activity and a reduction in side-effects such as salt and water retention. The drug is not absorbed when applied locally and as a result in dermatological conditions a maximum anti-inflammatory effect may be achieved without any systemic action. Other preparations of prednisolone for topical application include Predsol, Hydeltracin, Hydrodeltalone, Ultracortenol with Bradosol Cream, and Cortibiotic. Some of those preparations also contain an antibiotic for the treatment of areas that are both inflamed and infected.

CHOLEDYL.—Chemistry: Choline theophyllinate. More soluble than the parent theophylline, the compound is much better tolerated than aminophylline. It is also more stable, rarely causes any gastric irritation, and gives considerably higher blood levels. Therapeutic doses have virtually no toxic effects. The syrup is designed to enable clinically effective doses to be given to children. Other derivatives of theophylline are Neutraphylline (dihydroxypropyltheophylline), Etophylate (piperazine, theophyllinyl), Etophylate (piperazine, theophylline), and Monotheamin (theophylline monocthanolamine).

- Chemistry: 1-(2-acetoxyethyl)-4-DARTALAN. [3-(2-chloro-10-phenothiazinyl)-propyl] zine dihydrochloride, or thiopropazate. close chemical relationships with chlorproma-zine, from which it differs in having an acctoxycthylpiperazine group replacing methylamino group. It has the general properties of the promazine derivatives, but an increased potency. Dosage is therefore reduced, and the drug also has a more rapid action. Thiopropazate is said to be almost devoid of toxic effects, and previously jaundiced patients improved whilst undergoing Dartalan therapy, Related drugs are Sparine (promazine), Notensil (acetylpromazine), Stemetil (prochlorperzine), Pacatal (pecazine) and Largactil (chlorpromazine). Other tranquilising drugs include Covatin, benactyzine (Cevanol, Suavitil, Lucidil and Nutinal), hydroxyzine (Atarax) and azocyclonal (Frenquel).

ARTEROCHOL. - Principal constituents maize oil and pyridoxine, Maize oil is similar to olive oil in physical properties, and in Australia is a permitted alternative in some official The value of the oil depends preparations. upon its high linoleie acid content. Coronary heart disease is associated with high blood cholesterol levels, and such high levels can be lowered by replacing animal fats of the dict with fats containing unsaturated acids, particularly linolcic acid. Pyridoxine is associated with metabolism of unsaturated fatty acids. and a reciprocal relationship may exist between the body requirements of these substances. Other drugs used in hypercholesterolæmia include anticoagulants, but more recently nicotinic acid in large doses (up to 4.5 gm. daily) has been used with success. Lipostabil, used in coronary sclerosis, contains the lecithins of soya bean in association with potassium theophylline thiocyanate.

ATROL. — Chemistry: 2-dimethylaminocthanol, also known as DMAE. This substance is a precursor of acetylcholine, and can replace that compound, either partially or completely, as a growth factor, Acetylcholine has been used in the treatment of schizophrenia and obsessional tension states, but a prolonged course is necessary. In a search for orally active compounds, DMAE was tried out as a tertiary amine precursor of acetylcholine. Preliminary work was encouraging, but the drug demands long-term therapy, as improvement may be very gradual. Other drugs used in schizophrenia include pipradol (Meratran), its isomer azocyclonal (Frenquel) and tranquillisers of the promazine group.

ICIPEN. — Chemistry: Calcium phenoxymethyl penicillin. The free acid is penicillin V, an ester of penicillin that escapes enzymatic breakdown in the stomach, and is therefore effective orally. The calcium salt is equally stable but more soluble, and gives a more rapid effect and higher blood levels of the drug. Calcipen V and Penavlon V are other preparations of calcium penicillin V, and the potassium salt is present in Compocillin V, Distaquaine V-K and V-Cil-K. Compocillin V suspension contains the hydrabamine salt of penicillin V.

RIBOVIN.—Chemistry: Riboflavin or vitamin B₂. Although the nutritional requirements of riboflavin arc low, large doses have been used therapeutically for a variety of conditions. Originally suggested for use in migraine in 1946, interest in this aspect of riboflavin therapy has recently revived, though the mode of action of the drug in this condition is unknown. Riboflavin is also available under the brand names Beflavit and Ribovel, Other factors of the vitamin-B complex, particularly nicotinic acid, have also been used in migraine.

L-NORADRENALINE. — Chemistry: 1-(3:4-di-hydroxyphenyl)-2-aminoethanol. A naturally occurring primary amine, differing chemically from adrenaline only in the loss of a methyl group from the amine side chain. Greater differences are shown pharmacologically. Thus adrenaline causes a great increase in the cardiac output, with a consequent rise in blood pressure. Noradrenaline has little effect on the heart, but raises the blood pressure by a general vasoconstriction. Similar results are therefore obtained by different mechanisms, but with noradrenaline, unlike adrenaline, the pulse rate is slowed. Adrenor and Levophed are similar products.

AMERICAN LISTED DRUGS

The American Medical Association's Council on Drugs has recently evaluated the following:—

AZACYCLONOL HYDROCHLORIDE.--A structural isomer of pipradol hydrochloride (chemically a,a - diphenyl - 4 - piperidinemethanol-a - (4 - piperidyl) benzhydrol hydrochloride). Understood to have negligible toxicity, with rare skin reactions easily reversed by ending the administration. Suggested in acute but not chronic schizophrenia and in toxic states. Longer duration of administration (100 mgm. orally per day for four to six weeks) may give a higher rate of favourable responses in chronic eases. Acute schizophrenia has responded to 20-100 mgm, orally three times daily. Where that is not feasible intravenous administration of 100 mgm, may be substituted. For toxic psychoses, post-operative confusion lirium tremens the dosage suggested is 100 mgm, intravenously every eight hours for one to seven days. Data supplied by Wm. S. Merrell Co. Proprietary name: Frenquel.

FLORANTYRONE.—A hydrocholeretic, chemically γ-oxo-γ-(8-fluoranthene) butyric acid, proposed for the treatment of chronic cholecystitis, cholangitis, cholclithiasis, and billiary dyskinesia. Some clinicians advocate trials in

conjunction with antispasmodics (to inhibit spasm in the sphincter of Oddi). Contraindicated in acute cholecystitis and in patients suffering complete mechanical biliary obstruction, Data supplied by G. D. Searle & Co. Proprietary name: Zanchol.

PROCHLORPERAZINE MALEATE. - 2-chloro-10-[3-(1-methyl-4-piperazinyl)-propyl] phenothiazine dimaleate. Action and indications parallel those of chlorpromazine, than which it mated to be five times as potent. Antihistaminic and antispasmodic properties of the compound are understood to be mild, and its adrenergic blocking properties are less than those chlorpromazine; in contrast its potentiating effect upon the central nervous system depressants is held to be minimal. The drug is indicated in treating neuroses and mild emotional disturbances derived from anxiety, tension and agitation. Toxicity appears to be less than that of chlorpromazine. High dosage may precipitate neurological effects, complicating the therapy. Neurological disturbance if it occurs requires administration of an anti-Parkinson drug or a temporary suspension of Adult dosage normally 5-10 mgm. or four times daily. More resistant conditions suggest a slow increase of dosage until symptoms diminish or side-effects limit the therapy. Institutionalised psychotics receive 30-40 mgm. daily in divided doses gradually increased to give a satisfactory response, usually within the range 75 to 125 mgm, daily. For patients up to the age of two years, oral dosage based upon 0.25 mgm, per lb. bodyweight once or twice daily (maximum per day 15 mgm.) For children from two to six years: mgm, up to three times daily (maximum 20 mgm.); same routine for children aged six to twelve years (upper limit 25 mgm.). Data supplied by Smith, Kline & French Laboratories. Proprietary name: Compazine dimaleate.

PROCHLORPERAZINE ETHANE-DISULPHON-2-chloro-10-[3-(1-methyl-4-piperazinyl) propyll phenothiazine ethanedisulphonate has the same properties and indications as the maleate but may also be administered intra-muscularly. Severe nausea and vomiting may be controlled by prompt parenteral administration. Acutely disturbed psychotics respond quickly. Unreliable patients, failing to take regular doses, may be treated parenterally. Oral or deep intragluteal injection is the route for administration. Dosage levels as for prochlorperazine malcate. Oral therapy should replace parenteral administration as soon as possible. For adults, in severe nausea and vomiting, 5-10 mgm. intramuscularly every three or four hours (maximum 40 mgm, in twenty-four hours unless the patient is in hospital). Acutely disturbed patients require 10-20 mgm, repeated at intervals from one hours. Data supplied by Smith, Kline & French Laboratories. Proprietary name: Compazine ethanedisulphonate.

PROTAMINE SULPHATE. - The sulphate of the strongly basic, protein-like substance derived from salmon and certain other fish sperm. Has an anticoagulant action but is heparin antagonist, Almost precisely equivalent to heparin in anticoagulant effect; protamine sulphate administered intravenously has consequently become an established agent to combat a heparin-induced hæmorrhage (a possible result of heparin therapy). Other nonspecific hæmorrhagic states such as those of menorrhagia, post-partum hæmorrhage post-irradiation hæmorrhagie diathesis respond to treatment. Doses of up to 200 mgm, within a period of two hours are tolerated but thera-peutic dosage is based upon heparin administration over the previous three or four hours. A normal limit of 50 mgm, is recommended. The quantitative dose is calculated as the equivalent of heparin administration. amount in a 1 per cent. solution is injected slowly, usually in 1-3 minutes. For spontaneous hæmorrhages the total daily dose is based upon 5-8 mgm, per kilo of bodyweight. It is dissolved in 300-500 mils of normal saline then administered in two equal parts at a sixhour interval. Therapy is restricted to a maximum of three days. Data supplied by Eli Lilly & Co. Proprietary name: Protamine sulphate.

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 2: Some congestion occurred at the warehouses during the week as release of orders for goods held up in the dock strike was sought by most merchants. Labour trouble at the Indian ports was no doubt responsible for the higher prices asked for a number of Indian commodities, amongst them Shellac (up 5s. per cwt.) and Turmeric (4s. 6d. to 5s. per cwt. dearer).

Inquiry for MENTHOL with little material on the spot to meet it caused a reversal of the usual downward price trend as Chinese rose by about one shilling per lb. in all positions. ALOES was lower by 7s. 6d. per cwt. for shipment and spot quotations were moved in line. More varieties of IPECACUANHA were offered from origin at slightly easier prices than recently. New crop SENEGA was quoted down to 13s. 6d. per lb., c.i.f., although no business was recorded. STYRAX which has been unobtainable for some months, was on offer again for near delivery but at scarcity prices. A parcel of West Indian material was also on offer though its price was also considered too high to be of interest. A small quantity of STROPHANTHUS gratus was received and quickly sold. Apart from the odd small lot that might turn up, no supplies are expected before the end of the year.

In ESSENTIAL OILS shipment rates for CITRONELLA from all sources were slightly easier. Brazilian PEPPERMINT was quoted down to 8s. 9d. per lb. while Formosan for shipment was down ninepence at 13s, per 1b. LEMON-GRASS was threepence per lb. easier at 6s. upon lower shipment offers while Penang PATCHOULI was down by about 2s. 6d. Otto of Rose quotations were withdrawn upon news from Turkey that because of unfavourable weather output of oil in the Isperta area was far behind the estimates. A maximum yield of between 250 and 300 kilos of oil is now expected. Producers are reported to have rejected offers of T£ 5,000 per kilo and are asking for a minimum of T£6,000.

Pharmaceutical Chemicals

AMIDOPYRIN.—Minimum rate is 25s. 2½d. per lb. with usual differentials for smalls.

AMYLOBARBITONE. — B.P.C. is 77s. 6d. per kilo for minimum 25-kilo lots and SODIUM, B.P.C., 87s. 6d. per kilo.

BARBITONE.—Rate for less than 25-kilo lots is 53s. 6d. per kilo. The SODIUM derivative is 56s. 9d. per kilo.

BUTOBARBITONE. — B.P.C. is 82s. 6d. per kilo in minimum 25-kilo lots.

CHALK. — Prepared powder B.P., is £22 per ton for minimum 1-ton ex works.

COCAINE.—For 16-oz. lots the price of the HYDROCHLORIDE is 91s. 6d. per oz. and ALKALOID, 101s. Subject to D.D.A. regu-

CYCLOBARBITONE.—B.P.C. and Calcium in 25-kilo lots or over is 82s. 6d. per kilo.

HEXOBARBITONE. — In 25-kilo lots the price is 115s. per kilo. Sodium salt is

IODIDES.—Current quotations (per lb.) include the following:

	28-lb.	1-cw1.	5-cwt.		
POTASSIUM	s. d.	s. d.	s. d.		
SODIUM	13 0	12 9	12 3		
AMMONIUM	1 21 9	20 5	_		

10DINE.—Resublimed is 13s, 2d. per lb. in 1-cwt. lots, or 12s, 8d. in 5-cwt. lots. Minimum delivered rate for CRUDE is now 15s. per kilo.

IODOFORM.—Powder is 22s. 4d. per lb. in 28-lb. lots; 21s. 8d. in 1-cwt. and 21s. 1d. in 5-cwt. lots. Crystals are 3s. per lb. more than the powder.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s. per cwt.; 11EAVY is 160s. per cwt. for 15-cwt. lots and about 130s. per cwt. for 1-ton lots.

Magnesium Chloride. — One-cwt. lots are quoted at 1s. 10d. per lb.; 5-cwt., 1s. 7d.

MAGNESIUM HYDROXIDE.—Makers' prices for B.P.C. are 1-cwt. lots, 3s. 5d. per 1b. and 1-ton, 3s. 2d. per lb.

Magnesium oxide, B.P.—Bulk rates are as follows:—Light, 3s. 3d. per lb., and heavy, 5s. 10d. per lb.

MAGNESIUM PEROXIDE. — Price (per lb.) or 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

MAGNESIUM SULPHATE. — Quotations for B.P. in minimum 1-ton lots vary between £18 and £21 per ton according to size of crystal and manufacturer. Exsiccated is £42 per ton. All ex works,

Magnesium Trisilicate. — In 28-lb. packages the prices (per lb.) are now as follows: —28-lb., 4s. 9½d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

METHADONE HYDROCHLORIDE. — Price is from 2s. to 2s. 6d. per gm. as to quantity. Subject to D.D.A. regulations.

OPIATES.—Home trade prices (per oz.) are as follows (subject to D.D.A. Regula-

. , <u>"</u> " (कर मूं	35 oz, and over	Under 35 oz.
G	s. d.	s. d.
CODEINE		
PHOSPHATE	. 41 0	42 0
HYDROCHLORIDE ,		48 3
SULPHATE	. 47 3	48 3
ALKALOID	. 54 0	55 0
Morphine		
ACETATE	. 50 0	51 0
HYDROCHI ORIDE .	. 50 0	51 0
SULPHATE	. 50 0	51 0
TARTRATE	. 60 0	61 0
ALKALOID	. 61 3	62 3
ETHYLMORPHINE		
HYDROCHLORIDE .	. 54 0	55 0
ALKALOID	63 3	64 3
DIAMORPHINE		
HYDROCHLORIDE .	. 54 9	55 9
ALKALOID	. 59 9	60 9

PARALDEHYDE. — B.P. in 12-winchester lots is 2s. 7d. per lb.; 10-gall. carboy, 2s. 2d., and 5 carboys, 2s. Stabilised in 40-gall drum lots, 166s. per cwt.; technical, 149s. per cwt.

PENTOBARBITONE SODIUM. 25-kilo lots are 125s. per kilo.

PETHIDINE HYDROCHLORIDE. — B.P. 100gm. lots, 100s. Subject to D.D.A. regula-

Phenobarbitone. — Under 25-kilo lots are 52s. 3d. per kilo and sodium, 55s. 6d.

PHOSPHORIC ACIDS.—B.P. (s.g. 1.750) is quoted at 1s. 4d. per lb. in 10-carboy lots. 1–2 carboys, 1s. 8d. per lb. B.P. 1914 is quoted from 1s. 2d. to 1s. 6d. per lb. HYPOPHOSPHORUS, B.P.C., in winchesters is from 7s. 5d. to 8s. 6d. per lb., as to quantity quantity.

PIPERAZINE. — ADIPATE is from 32s. 6d. to 36s. 6d. per kilo; citrate from 32s. 6d. to 36s. 6d. and tartrate, 38s. 6d.

SULPHACETAMIDE. — Quotations (per lb.) for 1-cwt. lots are 24s. 6d. The SODIUM derivative is 30s.

SULPHAGUANIDINE.—Manufacturers' rates for 1-cwt. lots are about 11s. per lb.

SULPHANILAMIDE. — Manufacturers' rates for 1-cwt, lots are 5s. 9d. per lb.

SULPHATHIAZOLE. — Price (per lb.) for 1-cwt. lots is 16s. 6d.

SULPHOCARBOLATES.—SODIUM PHENOLSUL-PHONATE, B.P.C., 1949 (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., 1949, is 5s. 6d.

Theophylline.—Alkaloid, anhydrous, is quoted at 20s. per lb. and B.P., 19s.; aminophylline, 18s. 6d. per lb.

Alcohol

BRITISH SPIRIT per proof gall.:—

Ethyl Alcohol: (95 per cent. Gay Lussac. 66 o.p.); where the number of proof gall. taken over any one year ended March 31 is 300,000 or over the price is 4s. $0\frac{1}{4}$ d.; 200,000 and less than 300,000, 4s. $0\frac{1}{4}$ d.; 100,000 and less than 200,000, 4s. $1\frac{1}{4}$ d.; 50,000 and less than 100,000, 4s. $1\frac{1}{4}$ d.; 10,000 and less than 100,000, 4s. $2\frac{1}{4}$ d.; 100,000 and less than 100,000, 4s. $2\frac{1}{4}$ d. Prices are exclusive of duty and are for tank wagon lots. In 40-gall, drums there is a surcharge of 1d. per proof gall. The following grades are subject to a premium on the above prices as set out in the next paragraph:—

the next paragraph:—

Absolute Alcohol, 95.5 per cent., 74.5 Absolute Alcohol, 95.5 per cent., 74.5 o.p., 3d. more per proof gall., the special high strength (99.9 per cent., 75.2 o.p.), 5d. more. Doubly Rectified Alcohol (S.V.R.) 95.8 per cent., 68 o.p., is 3d. more and P.I. Rectified Alcohol, 96.1 per cent., 68.5 o.p., 8d. more. R. R. Absolute Alcohol (re-rectified, 99.7 per cent., 75 o.p.), 14s. 10d. per bulk gall. net.

Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:-

Great Britain are as follows:—

Industrial Methylated spirit: Strength 61 o.p., 500 gall and over, 5s. 11d.; 100 gall. and under 500 gall., 6s. 2d.; 40 gall. and under 100 gall., 6s. 5d.; 10 gall. and under 40 gall., 6s. 10d.; 5 gall. and under 10 gall., 6s. 10d.; 5 gall. and under 10 gall., 7s. 3d. Strength 64 o.p., ½d. per gall. 66 o.p. (B.P.), 1d.; 68 o.p., 3½d. more than the above rates with 74 o.p. at 6s. 8½d., 6s. 11½d., 7s. 2½d., 7s. 7½d. and 8s. 0¼d. per gall. for similar quantities. Tank wagon delivery is 1½d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 7s. 2½d. (tank wagon) for 500 gall. to 8s. 8d. for 5-10 gall. (in drums) for 61 o.p.

Pyridinised industrial methylated spirit;

Pyridinised industrial methylated spirit; Strength 66 o.p., 500 gall. and over, tank wagon delivery, 6s. 2d.; 100 gall. and under 500 gall. (40/50 gall. drums), 6s. $6\frac{1}{2}d$.; 40 gall. and under 100 gall., 6s. $9\frac{1}{2}d$.; 10 gall. and under 40 gall., 7s. $2\frac{1}{2}d$.; 5 gall. and under 10 gall., 7s. $7\frac{1}{2}d$.

Mineralised methylated spirit: Strength 64 o.p. in one delivery, 100 gall. and under 500 gall., 6s. $6\frac{1}{2}d$.; 40 gall. and under 100 gall., 6s. $9\frac{1}{2}d$.; 10 gall. and under 40 gall., 7s. $2\frac{1}{2}d$.; 5 gall. and under 10 gall., 7s. $7\frac{1}{2}d$.

Methylated resin finish is 3d. per gall. over and methylated shellac finish is 1s. per gall. over the prices of pyridinised

methylated spirit.

Terms:—Deliveries free and carriage paid on returned empties; net cash.

Crude Drugs

ACONITE. — Spot supplies of Spanish napelus are 2s. 9d. per lb.

AGAR.—Kobe is 11s. 3d. per lb., duty paid. New crop for June-July shipment, 9s 2d., c.i.f.

ALOES. — Cape prime on the spot is 250s. 6d. per cwt.; shipment, 222s. 6d., ALOES. c.i.f.

ANISE (STAR).—Chinese is 130s. per cwt. c.i.f., and 140s. spot in bond.

BALSAMS. — Quotations per lb. are:—CANADA: Spot, 25s. COPAIBA: Para from 8s. to 10s. duty paid. PERU: Spot, 11s. Tolu (genuine as imported): 24s. 6d.; B.P., 17s.

BELLADONNA. — Herb is 2s. 6d. per lb. on the spot. Root is 1s. 6d. spot; shipment, 1s. 3d., c.i.f.

CAMPHOR.—B.P. POWDER is from 5s. per lb., duty paid. TABLETS, $\frac{1}{4}$ -oz. are 6s., in

Capsicums. — East African are from 150s, to 200s, per cwt. on the spot.

CARDAMOMS.—Aleppy greens are 14s. 6d. per lb. on the spot; shipment, 13s. 3d., c.i.f. No. 1 seed for shipment, 19s. 3d., c.i.f.; spot cleared.

CASCARA.—Spot 1957 peel, 260s. per cwt. 1958 peel. June–July shipment, 205s, c.i.f.

CHERRY BARK. - Thin natural is 1s. 5d. per lb., and rossed 1s. 11d.

CHILLIES. — Spot Mombasa are 160s. per cwt. and Zanzibar, 220s.

CLOVES. - Zanzibar on the spot are quoted at 3s. 2d. per lb., shipment, 2s. 8d.,

COCHINEAL.—Silver-grey Peruvian quoted 7s. 9d. per lb., c.i.f., spot; Canary Isles black-brilliant, 25s.; silver-grey, 18s. 6d.

COCILLANA.—Bark is 1s. 6d. per lb. on the spot.

ERGOT.—Portuguese is 5s. 6d. per lb., c.i.f., for prompt shipment and 6s. spot. American, 5s. 9d., spot.

GINGER.—Alrican. 95s. per cwt. on the spot; new crop for shipment, 90s., c.i.f. Jamaican No. 3 on the spot is 315s. per cwt. July shipment (new crop), 265s. c.i.f. Cochin spot, 95s.

GUM ACACIA. — Kordofan cleaned sorts are 132s. 6d. per cwt. on the spot; July shipment, 123s. 6d., c.i.f.

HONEY. — Australian light-amber is 107s. 6d. to 112s, 6d. and medium amber 97s; 6d. to 102s, 6d. Argentine 125s, to 130s.; Jamaican 135s, to 140s.; New Zealand clover, 160s, to 170s.; all per cwt. on the spot.

IPECACUANHA.—Colombian for shipment is 51s. per lb., c.i.f.; spot 53s. 6d.; Matto Grosso, 54s., spot. Nicaraguan, 76s., c.i.f. Costa Rican, no offers.

JALAP ROOT. — Brazilian untested is olfered at 2s. per lb. on the spot.

Karaya. — No. 1 gum on the spot is quoted at 220s, per cwt. and No. 2 at

KOLA NUTS. — Jamaican are offered at about 8d. per lb. spot, and $6\frac{1}{2}d.$, c.i.f. African 5d. to $5\frac{1}{4}d.$ spot and $4\frac{1}{2}d.$, c.i.f.

Krameria.—Bark is quoted at 90s. per cwt., duty free.

Liquorice. — Natural root: Persian to arrive is 45s. per cwt. Block juice: Anatolian, 200s. to 210s. per cwt., as to quantity. Italian stick from 310s. to 476s, per cwt. Spray-dried extract, 2s. $10\frac{1}{2}$ d. per lb.

MENTHOL.—Chinese is 51s. per lb., duty paid and 48s., c.i.f.; Brazilian, spot, 35s. 6d., duty paid, shipment, 33s., c.i.f. Formosan for shipment, 33s. 6d., c.i.f.

NUTMEGS. — West Indian 80's. 17s. per lb., spot; sound unassorted, 13s. 6d.

ORANGE PEEL. — West Indian bitter quarters are 11d. per lb.; Spanish, 1s. 3d. to 1s. 6d. as to quality: thin-cut Tripoli,

Orris root. — Florentine is 330s. per cwt. Short at origin.

PEPPER. — White Sarawak on spot is 2s. 7d. per lb., spot, July-August shipment easier at 2s. 6d., c.i.f. Black Sarawak is ollered at 1s. 6½d., spot, and July-August shipment at 1s. 6d., c.i.f. Black Malabar is now quoted at 215s. per cwt, on spot; July-August shipment 195s., c.i.f.

PODOPHYLLUM. — Emodi: Stocks sold, awaiting new crop (August-September), Peltatum, spot, 4s. 3d. per lb.; shipment, 450s., c.i.f.

QUASSIA. — Chips on spot are offered at 55s. per cwt. and for shipment at 32s. 6d., c.i.f.

QUILLAIA.—Spot offers of whole bark at 165s. per cwt.; cut, 197s. 6d.; crushed. 200s. Whole for shipment, 115s., c.i.f.

SAFFRON. — Spanish is quoted at 245s. per lb.

SARSAPARILLA.—Jamaican native red on the spot is 2s. 5d. per lb. Shipment, 2s. 3d., c.i.f.

28. 3d., c.i.f.

SEEDS. — (Per cwt.) Anise. — Cyprian unchanged at 160s. and Spanish, 157s. 6d., duty paid. Caraway.—Dutch are quiet at 87s. 6d., duty paid. Celery. — Indian offered at 175s., spot with small business passing. The new crop price for June–July shipment is dearer at 137s. 6d., c.i.f. Coriander.—Steady. Moroccan on spot is 60s., duty paid. New crop for July-August shipment is inclined to be easier at 41s. 6d., c.i.f. Cumin.—Firm. Cyprian on spot is 200s. No offers of new crop. Iranian new crop for July-August shipment is dearer at 157s. 6d., c.i.f. Dill.—Indian is quoted at 70s, on spot. Fennel. —Fresh arrivals of Indian offering at 185s. spot. Chinese now 157s. 6d., duty paid. Fenugreek.—Moroccan quiet at 50s., duty paid. Mustard. — English 65s. to 70s., quoted with no good quality available. quoted with no good quality available.

SENEGA.—Spot is 16s. 6d. per lb.; ship-

SENEGA.—Spot is 16s. 6d. per 16.; snipment, 13s. 3d., c.i.f.

SENNA. — Tinnevelly LEAVES, prime No. 1, 1s. 5d. per 1b., f.a.q., No. 3, 10d. Pods, manufacturing short at 1s. 6d. and hand-picked, 2s. 1d. to 2s. 4d. Alexandria pods: Manufacturing, offered from 1s. 6d. with hand-picked from 5s. to 6s.

SHELLAC.—F.O.T.N., 195s. per cwt., F.O. 1, 210s.; fine orange, 225s. to 295s.

SLIPPERY ELM. - Grinding quality bark is 2s. 7d. per lb.

SQUILL. — White is unobtainable on the For shipment 65s. per cwt., c.i.f., is spot. quoted.

STRAMONIUM. — Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STROPHANTHUS.—Kombé on the spot is 8s. 6d. per lb. for the 100 per cent. Gratus is unobtainable on the spot.

STYRAX.—Spot cleared. Shipment offers eceived for small lots of Turkish and West Indian at scarcity prices.

Tonquin Beans.—Para on the spot are offered at 8s. 6d. per lb. Shipment, 7s. 6d., c.i.f.

TRAGACANTH.—No. 1 ribbon is £1 £125 per cwt., No. 2, £110 to £115.

TURMERIC. — Madras finger is 62s. 6d. on the spot. June–July shipment, 60s. to 61s., c.i.f., quoted.

VALERIAN ROO1. — Spot: Indian (with rootlets) is 130s. and Belgian, 175s. to 195s. per cwt. Dutch (max. 2½ per cent. sand) for prompt shipment, 168s., c.i.f.

sand) for prompt shipment, 168s., c.i.f.

Vanillin.—Rates (per lb.) are now:—
5-cwt. lots, 25s. 3d.; 1-cwt. 25s. 6d.;
56-lb., 25s. 9d.; smaller quantities, 26s.

Waxes.— (Per cwt.). BEES'.—Dar-esSalaam, spot, 525s., shipment, 525s., c.i.f.
nominal; Abyssinian, spot, 470s. in bond;
shipment, 445s., c.i.f. Benguela spot,
520s., duty paid; shipment, 465s., c.i.f.
Candelilla.— Spot, 460s. Carnauba.—
Fatty grey. spot, 570s.; for shipment,
565s., c.i.f. Prime yellow, spot, 1,000s.;
shipment, 960s., c.i.f.

Essential and Expressed Oils

Anise.—Chinese, 8s. $4\frac{1}{2}$ d. per lb., spot; shipment. 7s. 9d., c.i.f.

Bois DE Rose.—Brazilian is 20s. per lb. on the spot and 17s. 6d., c.i.f.

CAJUPUT. — Spot supplies are from 10s. per lb.

CALAMUS.—Spot quotations are 62s. 6d. per lb.

CARAWAY.—English-distilled is offered at 55s. and imported from 26s. to 27s. 6d. per 1b.

CASTOR. — Minimum charge for home-produced B.P. oil on the spot is £150 per ton naked ex mill. Forward delivery, £5 to £8 per ton less.

CITRONELLA. — Ceylon, spot is 4s. 2d.; shipment, 3s. 7d., c.i.f. Formosan, prompt shipment, 3s. 10d.; July—August shipment, $7\frac{1}{2}$ d. per lb.; spot, 4s. 3d. in bond.

COD-LIVER. — B.P. is 11s. 6d. per gall. charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER. — B.P. oil is quoted from 70s. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 4s. 9d. per lb. 80–85 per cent.. 5s. 6d. Spanish (70–75), 4s. spot.

Grapefruit.—Jamaican, 17s. 6d. per lb.; spot. Californian for shipment in limited supplies at 19s. 8d. per lb.

LAVANDIN.—Spot is from 10s. to 12s. 6d. per lb. for original drums.

LAVENDER.—French oil, 40-42 per cent. is at 50s, per lb.

Lemongrass.—Spot is 6s. per lb., and July shipment, 5s. 7d., c.i.f.

LIME.—West Indian distilled is in the

region of 60s. per lb. on the spot. NUTMEG. — Imported B.P. oil is about 95s. per lb. English-distilled, 125s. to

165s, as to quantity.

OLIVE.—French is 21s. 6d. to 23s. per gall. on the spot, for B.P. quality.

OTTO OF ROSE. — Nominal. New crop reported a failure in Turkey.

PATCHOULI. — Penang is 27s. 6d., duty paid and 22s. 6d., c.i.f. Seychelles is quoted at 31s., spot.

PEPPERMINT. — Arvensis: Chinese 24s. 9d. per lb. on the spot and 22s. 6d., c.i.f., nominal. Brazilian, 8s. 9d., spot and 8s., c.i.f. Formosan, 16s., spot; new-crop for June–July shipment, 13s., c.i.f. Piperita: Italian "Mitcham"-type, from 42s. 6d. to 50s.; American, 27s. 6d. to 30s., as to origin origin.

PINE.—Punilionis on the spot is from 16s. per lb.; sylvestris, 25s.; Siberian (abietis), 12s. 6d.

Sandalwood. — Mysore offered from 75s. to 77s. 6d. per lb. as to source. East Indian 71s., spot.

UNITED STATES REPORT

NEW YORK, July 1: Japanese Menthol advanced to \$7 a lb., up 30 cents. STRYCHNINE ALKALOID was increased six cents to \$1:26 an oz. Higher per lb. among Crude Drugs was Cocillana at 20 cents (up four cents). Lower per lb. were Copaiba balsam at 40 cents (down three cents) and PERU BALSAM, at \$1.30 (10 cents). Higher per 1b. among Essential Oils were Pimento LEAF at \$1.95 (up 10 cents); SANDAL-WOOD \$11.65 (25 cents); LAVENDER SPIKE \$2.20 (20 cents); CLOVE, \$2.85 (25 cents); SPEARMINT, \$4.50 (30 cents); and natural Peppermint, \$4.50 (10 cents), with redistilled at \$4.90 (10 cents). Lower were GINGER OIL at \$11 (down 75 cents) and Formosan CITRONELLA, 65 cents (five cents). Spanish SAFFRON at \$36.50 per lb. was down \$1.

WORLD TRADE

Colombian Import Relaxations. Under official decree 01646 issued in Colombia on June 10, all products on a list needing prior approval for importation have been returned to the free import list. Among products returned are drugs and fertilisers.

French Liberalisation Decision. France has told the Organisation for European Economic Co-operation that she cannot liberalise 60 per cent. of her O.E.E.C. trade from June 18 as laid down in the O.E.E.C. code of liberalisation. The French Government suspended trade liberalisation in June 1957 in an attempt to check the drain on foreign exchange reserves.

Lower Swiss Chemical Exports. Official Swiss trade returns for May, reveal a decline in the value of the Federation's exports of chemical and pharmaceutical products. Expressed in millions of Swiss francs, they aggregated 86 6 against 92 6 in April and 104 0 in May 1956. The leading position is held by pharmaceutical products valued at 40.7, against 44.8 in April and 47.0 a year ago.

Africa's First Sulphur Plant,-A £300,000 sulphur plant, the first of its kind in Africa, is to be constructed in Durban at an early date by the Standard-Vacuum Refining Company of South Africa (Pty.) Ltd. The plant, which forms part of a £5 million expansion programme by the organisation, is expected to have an output of 20 tons of pure sulphur per day by the middle of 1959.

West Indies Salt Project.—The West Indies consume about 10,000 tons of refined salt every year, all of which has to be imported, although ample deposits of raw salt are available. Consequently the University College of the West Indies, Department of Chemistry, has built a pilot plant with a salt output of 100 lb. per hour to test a novel prototype crystalliser in an effort to produce an inexpensive plant to deal with local requirements.

Australian Tariff Board Inquiries .-The Australian Tariff Board has announced details of public inquiries to be held in September on a number of items including diphenylamine and phenothia-The inquiry will be to decide whether assistance should be accorded the manufacture in Australia of the two chemicals and if so the nature and extent of such assistance and what rate of duty on imports should be provided if assistance is required.

Dutch Synthetic Glycerin Plant.-The first plant for the manufacture of synthetic glycerin in Europe (and the only one outside the United States) has come into production at the Pernis, Rotterdam, refinery of the Royal Dutch/Shell group, it has been announced. Research work done by the Shell Petroleum Co. in California led to the development of a method of manufacturing synthetic glycerin using propylene as its starting material. The synthetic process, which yields high-purity glycerin, has been applied in the United States on a large scale by Shell Chemical Corporation for some years now.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION From the "Trade Marks Journal," June 13

For perfumes, toilet preparations (non-medicated), cosmetic prepaartions, deutifrices, dipilatory preparations, toilet articles (not included in other classes), hair dyes, preparations used for colour-ing eyebrows and eyelashes, hair lotions, toilet

shampoos, soaps and essential oils (3)
Device with word "FRANCIL," 773,745, by Parfymeri Trading Aktiebolag, Malmö, Sweden. For medicated cough sweets (5)

HACKS, 765,199, by White-Hudson & Co., Ltd., Southport, Lancs. .

For all goods (5)

PREDNINE, PREDNICOL, 768,460-61, by Parke, Davis & Co., Ltd., Hounslow, Middlesex. COPELS, B773,673, by Imperial Chemical Industries, Ltd., London, S.W.I. UFACID. Industries, Ltd., London, S.W.I. UFACID, 773,807, by British Schering, Ltd., London, W.8. VITOCATAN, 774,156, by Dr. Karl Thomae G.m.b.H., Biberach on the Riss, Germany, JUN1DOR, 774,994, by Clinical Products, Ltd., Richmond, Surrey, VIMINETS, 775,624, by Roche Products, Ltd., Welwyn Garden City, Herts.

For sterilising preparations for dairy use (5) DAIRYMAID, 774,198, by Joseph Crosfield & Sons, Ltd., Warrington, Lancashire.

For pharmaceutical preparations containing amides (5)

BROSALAMID, 774,630, by T. J. Smith & Nephew, Ltd., Hull, Yorks.

For pharmaceutical preparations (5)

FLUTESTOS, 775,812, by E. R. Squibb & Sons, Ltd., London, W.1.

For photographic instruments, photographic reproduction apparatus; photographic films and slides, all prepared for exhibition; photographic developing and printing apparatus, photographic

utensils; etc. (9)

MICRORITE, 772,587, by Microfilm Records
(Aberdeen), Ltd., Aberdeen, Scotland.

For photographic projectors, photographic enlargers and parts and fittings (9)
CLUBMAN, 774,990, by Eric Marshall Smith,

Bournemouth, Hants.

For artificial sponges (21)

DURA-SOFT, 774,166, by Curtiss-Wright Corp., New York, U.S.A.

For foodstuffs for birds (31)

GARDIAN, 775,616, by Kathleen Joan Harte, Sevenoaks, Kent.

From the "Trade Marks Journal," June 18

For chemical products for use in industry, science and photography; sensitised photographic films, papers, etc. (1)

ORWO, 767,976, by Veb Filmfabrik Agfa Wolfen, Wolfen, Bitterfeld, Germany.

For antioxidants being chemical products for use in industry; and preservatives for food (1)

DALPAC, 770,857, by Hercules Powder Co., Wilmington, Delaware, U.S.A.

For dyes, dyestuffs and colouring matters, none being for laundry or toilet purposes (2)

PROCINYL, 775,382, by Imperial Chemical Industries, Ltd., London, S.W.1.

For shampoos (3)

REALISTIC, 764,508, by Realistic Co., Westbourne, Bournemouth, Hants.

For perfumes, eau de Cologne, lavender water, lipstick and soaps (3)

NIKKI, B767,208, by Nikki Novelties, Ltd., London, W.12.

For shampoos for children (3)

DODIE, 771,852, by Francois Peyron, Paris, France.

For non-saponaceous detergents for household use

POPPET, 774,680, by Newton, Chambers & Co., Ltd., Thorncliffe, nr. Sheffield.

For soaps, perfumes, cosmetic preparations, nonmedicated toilet preparations and brilliantine (3) LENTHERIC SHEER PINK, 775,203, by Lentheric, Ltd., London, W.1.

For laxatives (5)
DIOCTOSEN, 771,888, by Ward, Casson, Ltd., London, W.1.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, July 6

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Christ Church, Oxford, at 2 p.m. Annual ericket match with Portsmouth Chemists' Association.

LONDON CHEMISTS' GOLFING SOCIETY, Dunstable golf club. Fixture.

SOUTH LONDON AND SURREY PHARMACISTS' GOLF-ING SOCIETY, Ifield golf club, near Crawley, at 9.30 a.m. Fixture.

Thursday, July 10

WEST HAM ASSOCIATION OF PHARMACISTS, Syon House, Isleworth. Visit. Coach picking-up points: At 1.10 p.m., corner of Glenny Road and Longbridge Road, Barking; at 1.15, Ilford Lane; at 1.20, Ilford Hill; at 1.25, corner of Romford Road and Manor Park Broadway; at 1.40, Stratford Broadway; at 1.50, Crooked

COMMERCIAL TELEVISION

PROGRAMME details are given to enable ehemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies. Where known, the number of appearances of the product during the week is shown in parentheses.

July 13-19 LONDON

Andrew's liver salt (3), Arrid Roll-on (3), Alka Seltzer. Aspro (4). Beecham's pills (2), powders (2). Bristow's shampoo (2), Brylcreem (3). Cooper's aerosol, Dabitoff, Damaskin, Delsey (2). Drummer products (3).

Flit press-button spray (2). Frozoclone, Fynnon salt. Ingram's shaving cream (3). Iron Jelloids (2). Knight's Castile soap (3). Kodak cameras (4). Lorelox (2). Lucozade (13).

Maclean's tooth-paste (2), Marzine (10), Max Factor creme puff (3). Mix-a-shake (3). Mothaks (2). Nervone, Optone (2). Optrex (1). Pepsodent (4). Phillip's tooth-paste (3). Prom. P. L. J. (3). Ribena (3).

Silvikrin pure, leaf shampoo (3). Sprinkleen (2). Sun-orange Quosh (2). Twink (3). Vosene shampoo. Yeast-vite (2).

MIDLAND

Andrew's liver salt (3), Arrid Roll-on, Alka Seltzer (2). Beecham's pills (3), powders. Bristow's shampoo (3). Brylcreem (4). Cooper's aerosol (2). Drummer products (3).

Eno's fruit salt. Flit press-button Fynnon salt (2). Germolene (3). Hiltone (2). Ibcol (5). Ingram's shaving cream (3). Knight's Castile soap. Kodak cameras (4). Lorelox (2). Lucozade (3).

Maclean's indigestion remedies, tooth-paste (2). Marzine (7). Max Factor creme puff (5), Mellajuce preparations. Meggeson's dyspepsia tablets (2). Mix-a-shake (3). Moorland's indigestion tablets (2). Optrex. Pepsodent (4). Prom. P. L. J. (3). Quickies (4). Ribena (3).

Silvikrin leaf shampoo (3), hair eream. Sprinkleen, Sun-orange Quosh (3). Twink (2). Vosene shampoo. Yeast-Vite. Zoflora.

NORTHERN

Amami wave set. Andrew's liver salt (3), Arrid Roll-on (3). Alka Seltzer. Aspro (6). Beecham's pills (3), powders (3). Bristow's shampoo (2). Brylcreem (4). Carter's little liver pills (3). Cooper's aerosols (2). Cephos (4). Dinneford's (2). Drummer products (4).

Eno's Fruit Salt (2), Flit press-button spray (2), Fynnon salts (2), Germolene (3), Hiltone (2), Ibcol (5), Ingram's shaving cream (3), Knight's Castile soap (2). Kodak eameras (3). Lucozade (4).

Maclean's tooth-paste (4), Marzine (13), Max Factor creme puff (3), Meggeson's dyspepsia tablets (2). Optabs. Optrex. Pepsodent (4).

Phosferine (2), Phyllosan (3), Prom (2), P. L. J. (5), Ribena (2),

Silvikrin leaf shampo (3), hair cream. Setlers (5). Sprinkleen. Sun-orange Quosh (3). Twink (3). Vaseline hair cream (3). Yeast-Vite, Zoflora.

SCOTLAND

Andrew's liver salt (3), Askit (7), Alka Seltzer (2), Beecham's pills (2), powders (2), Bristow's shampoo (2), Brylereem (3), Delsey, Dinneford's magnesia (2),

Eno's Fruit Salt. Fynnon salt, Knight's Castile soap, Kodak cameras (4), Lucozade (4),

Maclean's indigestion remedies, tooth-paste (6).

Marzine (6). Max Factor creme puff (2). Optrex
(2). Pepsodent (7). Prom. P. L. J. (3).

(2). Pepsodent (7). Prom. P. L. J. (3). Silvikr n pure, leaf shampoo (4). hair cream. Sprinkleen. Sun-orange Quosh (3). Simpkin's products. Twink (3). Vapex. Vosene shampoo. Yeast-Vite.

WALES

Andrew's liver salt (4). Alka Seltzer (3). Beecham's pills (3), powders (2), Bristow's shampoo (3). Brylercem (3). Cooper's acrosols (2). Delsey (2). Drummer products.

Eno's Fruit Salt, Fynnon salt (2), Germolene (4), Hiltone (2), Ingram's shaving cream (5), Knight's Castile soap (2), Kodak camcras (4), Lucozade (3).

Maclean's indigestion remedies, tooth-paste (6).

Marzine (11). Max Factor ereme puff (3), Pepsodent (3). Phyllosan (2). Prom (3), P. L. J. (3).

Silvikrin pure, leaf shampoo (4). Sun-orange Quosh (2). Twink (3), Yeast-Vite,

TELEVISION TIE-UP

DETAILS of a merchandising link between about 120 branches of Timothy Whites & Taylors, Ltd., and Associated Television, Ltd., have been announced. Under a scheme to operate in the Midlands of England throughout July and August, the Midlands branches of the multiple are devoting one window each during July and August to an "A.T.V. television window." Advertisers in A.T.V. campaigns in those two months will have a nine weeks' guaranteed display, the products to be featured including Maclean's tooth-paste, Astral skin cream, Silvikrin leaf

BEECHAM FOODS, LTD. (from June 30)

shampoo, Max Factor cosmetics, Toni home "perm," Lucozade, Elastoplast, and Meggeson's dyspepsia tablets. In addition, Messrs, Timothy Whites & Taylors are themselves advertising on television. Basic display material (a banner and showcard) is being provided by the television company, which is also sponsoring a window display competition amongst the managers of the Γ , W. & Γ , branches, with prizes to a total value of £350.

PRINT AND PUBLICITY

PRESS ADVERTISING

COUNTY LABORATORIES, LTD., Honcypot Lane, Stanmore, Middlesex: Silvikrin leaf shampoo. In Woman, Woman's Own, Woman's Realm, Woman's Day.

Cow & GATE, LTD., Guildford, Surrey: Cow and Gate milk food, In women's magazines.

EUCRYL, L1D., 7 Oakley Road, Southampton: Eucryl tooth-powder. In *Tit Bits*, *Woman's Illustrated*, *Woman's Realm*.

Alfred Franks & Bartlett Co., Ltd., 266
Gray's Inn Road, London, W.C.1: Bartex sunglasses. In Daily Express, Daily Mirror, News of the World, Radio Times, T.V. Times, Woman, Woman's Own.

D. & W. Gibbs, Ltd., Hesketh House, Portman Square, London, W.1: Erasmic shaving preparations. In newspapers and magazines.

GOLDEN, LTD., 7 Grosvenor Street, London, W.1: Tress. In national newspapers.

E. GRIFFITHS HUGHES, LTD., P.O. Box 407. Manchester: Sno-stik. In national newspapers and principal women's magazines.

1NNOXA (ENGLAND), LTD., 1 Eden Street, London, N.W.1: Innoxa cream powder. In Sunday Express.

KAY PRODUCTS, LTD., Stockport, Lancs: Lush soluble fertiliser. In national newspapers.

POUNDGATE PRODUCTS, LTD., 182 Dawes Road, London, S.W.6: Medaped foot products. In News of the World, People, John Bull, Woman, Woman's Own, Woman's Weekly, Woman and Home, My Home, Wife and Home.

THORNTON & ROSS, LID., Linthwaite, Huddersfield: Zoflora, In Good Housekeeping, Home, Ideal Home, Wife and Home, Woman and Home, Woman's Journal, Home Chat, Home Notes, Women's Illustrated, Woman's Weekly.

L. E. VINCENT AND PARTNERS, LTD., 1 Chester-field Gardens, London, W.1: Formula 16. In local newspapers,



DISPLAY "SHELL": Sponcel, Ltd., 40 Chancery Lane, Londnn, W.C.2, are offering this display "shell" free in return for a qualifying nrder. In cream-coloured plastic the "shell" holds a tumble display of Spontex thilet spnnges. Measuring approximately 12 in. sq., the unit takes up little counter space and could make a centrepiece for a combined display of sponges and toilet soaps.

C. & D. WEEKLY LIST OF PRICES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; • = Tax 30 per cent.; ‡ = Tax 60 per cent.

BEECHAM FOODS, LID. (CCIII
DE L. I	Doz.	1.R.P.	lotic
PLJ lemon juice 25 fl. oz.	44 6	4 6 A	Florin
COUNTY LABORATORIES	LTD,		oint
Bristow's liquid shampoo*			lotie
bottle	21 6	3 0 A	Granc
Water Lilies leaf shampoo*	9 0	1 3 A	oint
Silvikrin liquid shampoo*			
large bottle	21 6 1	₹ 3 0	
Vosene shampoo*	14 4	2 0 A	Mystc
small bottle large bottle	28 8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
large bottle	20 0	4 0 2	NT 1
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Tonivitan capsules 24		4 0 R	
100		11 71 R	
250 500		24 9 R 46 9 R	
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1,000		90 0 A	
A. WANDER, LTD.			vag
Ovaltine Chuckles	13 7	1 5 A	
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P.A.T.A. L	IST		for
(Alterations notified this week		Proprietary	Prone tabl
Articles Trade Association.)			labi
MORNY, LTD. (from July 1)			
No. 520 hand soap*	8 7	1 2 A	
No. 511 bath soap*	15 31	2 1 A	
No, 512 visitors' discs	$4 \cdot 10\frac{1}{2}$	8 A	Raud
ORTHER LTD (from lune 2	20)		
OPTREX, LTD., (from June 3 Famel syrup* large	29 3	4 0 4	
family	57 0	7 9 A	
			Rubra
ADDITIONS TO T			Kuora
GEIGY PHARMACEUTICAL	L CO., I	TD.	
Irgapyrin with xyloeaine	104 0	15 (Stryei
ampoules 5 mils 5	124 0	15 6	Tarqı
50	Each 88 10	133 3	1 olse
50	00 10	155 5	
E. R. SQUIBB & SONS, LTD).		
Adcortyl tablets	260 0	45 0	Vespi
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4 mgm, 30	450 0	56 3	
4 mgm. 100	Each 102 0	180 0	
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Doz.

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lotion	0.1	per	cent.				
			15 mils	156	0	19	6
Florinef	with	Gra	ncodin				
ointmcr	11		5 gm.	80	0	10	0
lotion			15 mils	195	0	24	41
Grancodia	n lozen	ges	12	28	0	3	6
ointmer	11		3.6 gm.	20	0	2	6
			15 gm.	40	0	5	0
			8 oz.	480	0	60	0
Mysteclin	-V car	sule		330	0	41	3
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DELETIONS FROM THE LIST SOLPORT BROS, LTD, All lines,

NEW PRODUCTS AND PACKS ALLEN & HANBURYS, LTD. Hyperduric adrenatine jection ampoules 0.5 mil 2 4 1 mil 5 atropine injection am-3 9 poules morphine injection gr. ¼ in 1 mil gr. ½ in 1 mil 4 5 Proctocaine ampoules 2 mils 5 10 Dequadin pessaries BENGER LABORATORIES, LID. 1mposil 20 mils 40 0 50 mils 60 BURROUGHS WELLCOME & CO. 85 0 COUNTY LABORATORIES, LTD. Bristow's cream shampoo* Doz. tube 21 6 Amami wave sct‡ sachet CROOKES LABORATORIES, LTD. Myoferrin 20 mils 10 15 0 DISTILLERS CO. (BIOCHEMICALS), LAD. 4 0 13 0 32 9 150 9 Distivit 20 tablets 25 100 2 8 8 8 21 10 100 6 Distivit 100 tablets 150 500 DUNCAN, FLOCKHART & CO., LTD. Trophenium vials 20 mils 106 3 PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD. Perolysen tablets* 5 mgm.

500 50

10 mgm,

NOW-The famous

four!

* INECTO RAPID

Keeps cash registers ringing. Has a world reputation for tinting white or grey hair permanently and indetectably. Universally used and recommended. Sold with simple picture directions in 18 natural shades.

2/6 + P.T. Retail 5/3

★ COLOUR CREME

Creamy rich and so gentle, it is available in the same 18 shades as Inecto Rapid. Its deep reconditioning qualities actually improve hair health.

3/4 + P.T. Retail 7/-

★ FOUR-IN-ONE

So called because it simultaneously lightens, brightens, colours and conditions drab, faded or just-greying hair in shampoo time. A range of 11 glamorous shades.

2/6 + P.T. Retail 5/3

* "HAIR MAGIC"

A new exciting semi-permanent hair colouring, delightfully easy to use. Applied like a shampoo, gives new highlights, softness and lustre. No skin test required. Really breath-taking shades, including new sensational Browns for hair up to 50% grey. There is a simple colour chart with every bottle.

1/8 + P.T. Retail 4/-

FROM ALL WHOLESALERS

BACKED BY CONTINUOUS AND COMPELLING ADVERTISING

* Ask for free shade guides; attractive showcards and "hand-out" leaflets.

Enquiry Bureau

INECTO HOUSE, 27 DOVER STREET, LONDON, W.1

HYDe Park 7541 (12 lines)

PADD COTTON WOOL BALLS

Delicate pastel shades packed in attractively printed polythene bags

SELF SELLING

Trade Price — 14/- per dozen bags Selling Price — 1/9 per bag

Obtainable from your wholesaler or direct

--- also -----

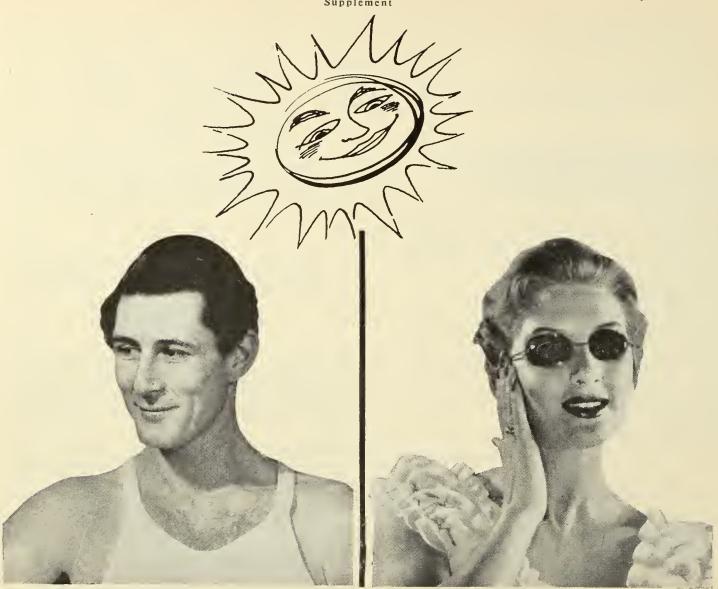
PADDI COTTON WOOL BALLS REDUCED IN PRICE

Trade Price — 12/- per dozen bags Selling Price — 1/6 per bag

manufactured by

ROBINSON & SONS LTD.

WHEAT BRIDGE MILLS, CHESTERFIELD



Sunshine and Warmth ... for people of all ages

So many people would feel all the better for the stimulating warmth and sunshine provided by Philips Health Lamps. For instance, when used on medical advice, these lamps are often remarkably successful in treating rheumatic complaints and debilitated conditions.

Philips Ultra-violet SUNLAMP

PHILIPS

Philips Sunlamp gives the blessing of "Mountain sunshine". Doetors know the value of the right type of sunlight and do not hesitate to recommend the Philips Ultra-violet Sunlamp Price: £5.17s.6d.

Philips Infra-red INFRAPHIL

Philips Infraphil was installed in Philips Infraphil was installed in the medical centres at the last two Olympic Games. It is most valuable in alleviating the pain of arthritis, rheumatism and muscle-strain. Infraphil Infrared lamp costs only £3.3s.0d. (as illustrated). De-luxe model "A" Price: £4.4s.0d.

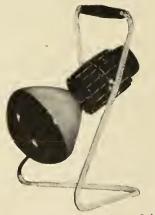
A doctor's certificate must be presented when either of these lamps is purchased by the public.



PHILIPS ELECTRICAL LTD

ELECTRICAL APPLIANCES DIVISION

Century House · Shoftesbury Avenue · London · W.C.2



(INF3083)

Domestos
ONTV!
169 Spots

Every Station—Midlands, Northern, Scotland and Wales (June—July) and London (Sept.—Oct.).

Three sparkling new films will once again drive home the DOMESTOS message—"Use DOMESTOS — the Brushless Lavatory Cleanser—last thing every night".





Supported by a

Massive Press Campaign

Half-pages in Woman. Frequent insertions of large spaces in London Evening Newspapers and 49 large-circulation Provincial Evenings a combined readership of approximately

40,250,000

for every insertion

Increase your stocks and display Domestos

NOW!

TV means business—much increased business—to every retailer who ties up with point of sale display.

• Showcards readily available.



DOMESTOS LIMITED, NEWCASTLE UPON TYNE

Just the thing for athlete's foot

decilderm

REGD.

POWDER & OINTMENT

undecylenic acid preparations

Your customers will be grateful for having had their attention drawn to these really excellent products.

They are elegant in use and effective in action.

PACKS & PRICES:

Ointment (tube) retails @ 2s. 6d. Powder (puffer) retails @ 3s. less $33\frac{1}{3}$ per cent discount

Both products are in attractive one dozen display outers for the counter or window; from your wholesaler.

DUNCAN FLOCKHART OF EDINBURGH



Duncan, Flockhart & Co. Ltd., Edinburgh, 11

ade 5/58 P



MANESTY MACHINES LIMITED

DEPT. 5 · SPEKE · LIVERPOOL 24

Telephone: Hunts Cross 1972. Telegrams: Manesty, Liverpool 24

TABLET MACHINES · COATING PANS · AUTOMATIC WATER STILLS · GRANULATORS · PUNCHES & DIES



This showcard is one of the most successful we have produced. In that wondering smile, those clear blue eyes, mothers see the health they want in their own young "handfuls". For extra "pull" with *your* housewives place it prominently on your counter and see its effect on heartstrings—and purse strings! Ask for one with your next order.



3-CEREAL FOOD

FORTIFIED WITH MINERALS AND VITAMINS

RETAIL PRICE 1/4 each. TRADE PRICE 12/10 per doz. PARCEL RATE 2 doz. x 10 oz. cartons 24/-.

Made with all the experience of Glaxo Laboratories



GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX BYRON 3434



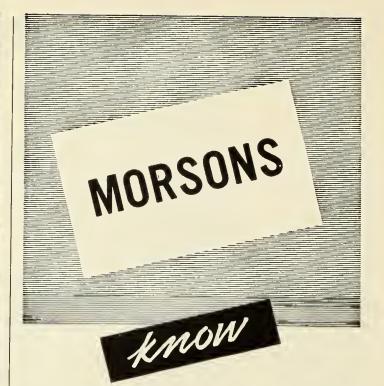
PRESSWORK, TINS, CANISTERS DECORATED METAL BOXES CONTAINERS OF ALL KINDS DRUMS AND KEGS



MODERN PACKAGES LIMITED

PHŒNIX WORKS

UXBRIDGE 8535-6-7-8



BISMUTH

For more than a century, Morsons have been making chemicals for industry and the pharmacist. The technical supremacy which comes from so long an experience is today an intangible but nonetheless invaluable element in every Morson product.

BISMUTH CARBONATE B.P. BISMUTH SUBNITRATE B.P.C. BISMUTH SUBGALLATE B.P.

If you have a chemical problem, Morsons are at all times glad to place their knowledge and technical resources at your disposal.

THOMAS MORSON & SON LTD.

PONDERS END, MIDDLESEX



Her Majesty The Queen, Manufacturers

THERMOS LIMITED present the new

UNSPILLABLE

VACUUM JUG*

-the jug that

OVER 12,000,000 **IERS** will be seeing in these

popular ITV Advertising Magazines

LONDON

'Jim's Inn'', "Fun in the Sun"

MIDLANDS

"Counter Attractions"

NORTHERN NETWORK

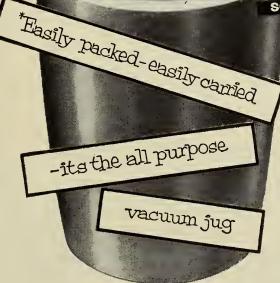
"What's in Store", "Let's go Shopping"

WALES

"Friday Shopping List"

SCOTLAND

"Between Ourselves", "Friday Fare"



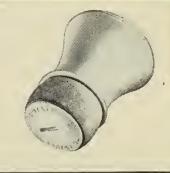
...for indoors and outdoors

Attractive, compact shape specially designed for space-thrifty carrying in beach bags, picnic hampers, etc.

THE RELIABLE BRAND OF VACUUM VESSELS YOUR WHOLESALER CAN SUPPLY

THE STORY'S IN THE STOPPER

Adjustable, It expands or contracts at the twist of a coin to "flat-grip" the neck of the glass inner, making it completely spill-proof for indoor and outdoor use. Letterbox Red • Primrose Green • Retail Prices: Standard Size No. 58 17/3 Family Size No. 58Q 23/5



To link your shop with this powerful odvertising compaign biggest ever for such o productorder these populor price jugs in the Special DISPLAY PACK boxes each holding 6 jugs (1 of eoch colour in both sizes) in good time before the TV compaign opens on JULY 25

TERMS FOR THIS OFFER

3 jugs @ 15/6—25% cost £1.14.10½. + 1/9d each tax. 3 jugs @ 21/--25% cost £2.7.3 + 2/5d each tax. Retailer's cost £4.2.1½ + 12/6 Purchase Tax.

Pollen or dust can give your customers hay fever. Put them out of their misery by recommending

BESORBO

MEDICINAL SNUFF

the proved remedy

Your wholesaler can supply you promptly. Orders of one dozen come in attractive counter display box for

MORE SALES-MORE PROFIT

Kemsales Ltd., 20 Eastcheap, London, E.C.3

BOTANICALS CHEMICALS **GUMS**



ESSENTIAL OILS SPICES WAXES

NEW YORK

ALOES ANNATTO BUCHU COLOCYNTH **IPECAC** PAPAIN **SABADILLA**

HAMBURG

*

JOHN KELLYS (LONDON) LTD. 24 OLD BROAD STREET, E.C.2.

Telephone: LONdan Wall 6585 (4 lines) Telegrams: "Ergotine, Stock, London"

GALLIC ACID PYROGALLIC ACID

AND DERIVATIVES

WHOLESALE AND EXPORT ONLY

THE BRITISH DYEWOOD CO. LTD., 19 ST. VINCENT PLACE, GLASGOW, C.I.

MANUFACTURER'S OFFER OF

STEEL SHELVING

- Brand new Manufactured in aur awn warks Shelves adjustable every inch
- Shelves adjustable every inch
 Heavy gauge shelves will
 carry 400 lb. each
 Stave enamelled dark green
 (alsa in white at £5 per bay)
 6 shelves per bay extra
 shelves 8/- each
 Quantity discounts

72" High

34" Wide

12" Deep

Delivered FREE £3 15s. ENGLAND, SCOTLAND & WALES

Ready for Erection

N. C. BROWN LTD.

SHELVING DIVISION · EAGLE STEEL WORKS HEYWOOD · LANCS



and All-Steel DRAWER UNITS

drawers are contained in the "INDUSTRIAL T W E N T Y."

Overall size,

42 in, high ×

13 in, wide ×

12 in, decp. The Standard drawer, 5 in. wide × 3 in. high × 11½ in. long containing one free divider Delivered from and drawer card. Sample will be sent on request.

Send far leaflets af other sizes. Stove Enamelled Dark Green.

20 of these



When you
are asked for
'something to prevent
travel sickness'

REMEMBER THESE FACTS

1 Hyoscine hydrobromide—the active ingredient of Kwells—has been proved by clinical and empirical experience, to have a greater degree of effectiveness, and a wider area of effectiveness, than any alternative drug.

2 Kwells is not a new, untried formula. It was chosen for the troops on the 'D-Day' landings, and for over 10 years millions of people, including children, have prevented travel sickness with Kwells without a single instance of serious side effects ever having been reported.

3 Although the retail price was recently increased because of higher production costs, Kwells is still the most economical of the established brands of travel sickness remedies.

More people
prevent travel
sickness with
Kwells than with
any other
remedy

...it's Kweis that prevent travel sickness



E. GRIFFITHS HUGHES LIMITED, MANCHESTER

Barnet's new profit-maker

BARLON GOMBS

made in a new

TOUGHENED PLASTIC



Wonderful new Barlon combs are made in a specially toughened plastic in a wide range of lovely satin colours (displayed in the attractive Barnet cabinet). GUARANTEED for twelve months, retailing at only 6d, 9d or 1/-, Barlon combs are easy to sell. They will give you a higher profit margin than any competitive line (up to 67% on cabinet refills). Something really new in combs giving full value to your customer and full profit for you. Keep Barlon combs displayed and cash in on many extra 'impulse' sales.



Get new BARLON combs on your counter



uickly — Order from your wholesaler now

HOLIDAY TIME EXTRA SALES TIME

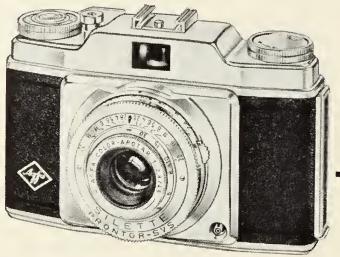


SILETTE 35mm

With the superb f2.8/45mm Agfa COLOR-APOTAR lens . . . a big favourite with professionals and amateurs alike.

With 9-speed Prontor SVS shutter. Light Value Scale £20. 0. 9 With 4-speed Pronto shutter £16.6.6 Ever-ready leather case £2. 16. 1





SILETTE L

with built-in photo-electric exposure meter, f3.5/45mm Agfa Apotar lens, Prontor SVS 9-speed shutter. Light Value Scale

SUPER SILETTE with coupled range-finder f3.5/45mm Agfa Apotar lens, Prontor SVS 9-speed shutter. Light Value Scale £31.6.6 Ever-ready leather case for Silette L and Super Silette £3. 3. 11

ISOLETTE world-famous "square negative" cameras

ISOLETTE I

f4.5/85mm Agfa Agnar coated, colour-corrected lens: Vario 3-speed shutter £10.3.2

ISOLETTE II

f4.5/85mm Agfa Apotar coated, colour-corrected lens: With Prontor SVS 8-speed shutter £17.3.0 With Pronto 4-speed shutter £14.18.9 Ever-ready leather case for Isolette I and II models Imitation leather case for Isolette I and II models £2.3.9 £1.9.5

ISOLETTE L

With f4.5/85mm Agfa Color-Apotar coated, colour-corrected lens: Pronto 4-speed shutter £24. 2. 6 Ever-ready leather case with metal trim £3, 2, 0

ISOLA I



Simple-to-use 2¼" x 2¼" camera with retroctable lens mount £4. 17. 8

CLACK

Fashionable little snapshat camero far full-size pictures £3. 8. 9



LUCIMETER

MOVEX 88

Streamlined, simple-to-use 8mm cine camera; brings mavie-making within everybady's means £32, 6, 2

Ever-ready hide leather case £3. IS. 7

GUCKI

Handy little 35mm transparency viewer with 3D effect **7/10d.** (minimum arder 10)

RONDINAX

Daylight loading Developing Tanks

RONDINAX 60 far 120 and 620 size roll films; uses 5 oz. fluid £3.9.6

RONDINAX 35U for standard 35mm cassettes; uses 7 az. fluid. With built-in thermometer and a film cutter £5. 14. 0

RONDIX 35 far all standard 35 mm cassettes.
Incarporates a new type spiral-less process system.
Uses 6 oz. fluid £2. 12. 6

ISOLA II



f6.3/75mm Agfa Agnar lens: Singlo 2-speed £7. 10. 7

Highly light electric expasure meter with incident light ottachment. Camplete with zip carrying-case £6. 18. 8.



AGFA LIMITED · 27 REGENT ST · LONDON · SW1 · REGENT 8581/4

Mnoll' Fine Chemicals

enjoy world-wide

reputation

Barbonin®

(6,7-diaethoxy-1-[3,4-diaethoxy-benzyl]-

isochinoline)

Bromoisovalerylurea (Bromvaletone B.P.C.)

Caffeine Alkaloid and salts

Ephedrine, its salts and derivatives

Papaverine and its salts

Pentamethylenetetrazol (Leptazol B.P.)

Theophylline, its salts and derivatives

Theophylline Ethylene Diamine

distinguished by their purity and meet the requirements

of the prominent

pharmacopæias.

Marketed by

Alwitt Trading Co., Ltd.

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Dentural makes its Television debut from the London station on July 10th, in the Shop Window programme, and will continue at approximately weekly intervals. Press advertising is also being intensified during the same period, to include the Sunday Dispatch and Sunday Express. How are your stocks?

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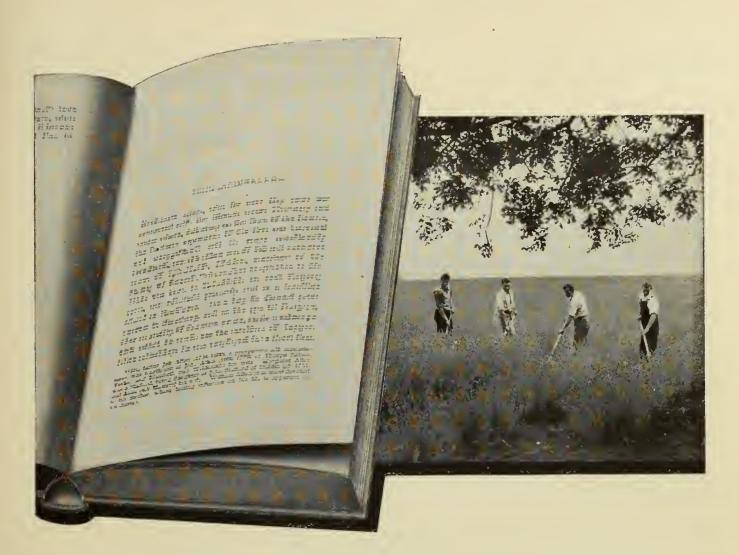
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NO COMPETITION, Good opening for chemist. New local shopping centre in fully deist. New local shopping centre in fully developed residential area, Streatham Hill, S.W.2. Lock-up shop, 20 ft, by 40 ft. Rent £150/£300 p.a. on lease. No premium, Flat if required. Punner Properties, 1.td., 41 Buckingham Palace Road, S.W.1. Victoria 9801.

BUSINESSES FOR DISPOSAL

CAMBRIDGE. Opportunity for chemist optician to acquire an old-established business lat-terly run as a drug store, Lock-up shop and offices. Long lease available. Moderate figure required for goodwill, fixtures and stock at valuation. Apply Nicholson & Co., 14 Downing Street, Cambridge.

BUSINESSES WANTED

IN THE ASHE LABORATORIES development IN THE ASHE LABORATORIES development programme provision is made for the purchase of one or more cosmetic, toiletry or proprietary medicine businesses. Principals are invited to contact Managing Director with a view to opening negotiations. Ashe Laboratories, Limited, Leatherhead, Surrey. C 396

APPOINTMENTS

ANCOATS HOSPITAL, MANCHESTER, 4 Locum Pharmacist

required. Salary by arrangeme to the General Superintendent. by arrangement. Applications Superintendent. C 8172

BETHNAL GREEN HOSPITAL, CAMBRIDGE HEATH ROAD, LONDON, E.2

Locum Pharmacist
Salary up to 16 guineas a week. Apply to
Hospital Secretary, Tel.: ADV, 3413. C 397

CROYDON EYE UNIT, 33 MAYDAY ROAD. THORNTON HEATH

Pharmacist (part-time)
Six sessions weekly, Rate 33s, per session. Pharmacy linked with that of Mayday Hospital,
Application form obtainable from the undersigned.

GEORGE A, PAINES, Group Secretary,

General Hospital, London Road, Croydon,

C 8090

ANCOATS HOSPITAL, MANCHESTER, 4

Pharmaeist
Applications are invited for the above post,
Whitley Council scale and conditions. Salary
£580—£785 p.a. Applications, stating age and
experience, with names of two referees, to the
General Superintendent. C \$173

CANTERBURY GROUP HOSPITAL MANAGEMENT COMMITTEE

Deputy Chief Pharmacist
Applications are invited for the appointment of
Deputy Chief Pharmacist to the Group Pharmaceutical Department (Category IV Hospitals). maceutical Department (Category IV Hospitals). The department, which is situated at the Kent and Canterbury Hospital, serves the eleven hospitals and clinics in the area. Salary £675 rising by annual increments to a maximum of £910 per annum, Applications with full details and the names of two referees to be addressed as soon as possible to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury, C 8184

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

MANAGEMENT COMMITTEE
Senior Pharmacist and Pharmacist
required at Bethnal Green Hospital (350 Acute
beds). The department has recently been modernised and is approved for training students.
N.H.S. Scale within the range £680-£870 for
Senior Pharmacist and £600-£815 for Pharmacist,
plus appropriate higher qualification allowance,
Apply with details of age, training and experience to the Group Secretary, 213 Kingsland
Road, London, E.2.

C 344

COLCHESTER GROUP HOSPITAL MANAGEMENT COMMITTEE, 14 POPE'S LANE,

COLCHESTER, ESSEX
Dispenser (part-time)
required for 18! hours per week at Clacton &
District Council. Whitley Council scale. Ap-

KENT AND CANTERBURY HOSPITAL, CANTERBURY

Locuin Pharmacist
required for service in the Group Pharmaceutical department for a period of approximately two months. Salary by arrangement and according to experience. Enquiries to Group Pharmacist (telephone Canterbury 2291), Applications to Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury. C 8183

LAMBETH HOSPITAL, BROOK DRIVE, S.E.11

Assistant-in-Dispensing required. Whitley Council rates of pay and conditions. Applications in writing, giving names of two referees to the Secretary. C 390 of pay and

CROYDON GROUP HOSPITAL MANAGEMENT COMMITTEE, MAYDAY HOSPITAL

(595 Beds)

Senior Pharmacist
Immediate vacancy, Modern department, Opportunity to secure wide exterience in hospital pharmacy, Salary scale £650 x £30 (6)—£830 per annum plus London Weighting, Higher resulting allowance, payable where applications are secured to the security of the security o qualification allowance payable where applicable. Written application giving age, qualifications and details of previous experience to be sent to the undersigned within ten days of the date of this advertisement.

GEORGE A. PAINES,

GEORGE A. PAINES,

Group Secretary,

General Hospital, London Road, Croydon.

C 8163

HONG KONG GOVERNMENT Pharmacist

Pharmacist
required on probation for two years to the permanent and pensionable establishment. Commencing salary according to experience in scale (including expatriation pay and temporary costof-liv.ng allowance) equivalent to £1,069 a year rising to £1,731 a year (single men), £1,180-£1,906 (married men), £1,291-£2,082 (family men). Free passages, Liberal leave on full salary after initial 3½ years' tour, Candidates (male) under 35 years, must be M.P.S. (G.B.) or recognised equivalent with minimum two years post registration experience and preferably have under 35 years, must be M.P.S. (G.B.) or re-cognised equivalent with minimum two years post registration experience and preferably have had long experience especially on inspectorial duties. Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M3C/44847/CD. C 8165

LENNOX CASTLE HOSPITAL,
LENNOXTOWN,
STIRLINGSHIRE
Chief Pharmacist

Applications are invited from Pharmacists (male or female) for the post of Chief Pharmacist (Category ii) at this hospital, Accommodation available for single person. Applicants must undergo medical examination if not already subject to N.H.S. Superannuation Regulations. Applications, stating age, qualifications and experience, together with names of three referees, to Secretary, B.O.M., Lennox Castle, 113 Douglas Street, Glasgow, C.2, not later than seven days from the appearance of this advertisement, C 8176

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8

Locum Pharmacist
required immediately, Salary up to 16 guineas a week. Apply to Hospital Secretary, Tel.: C1 Issold 6862, C 392

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Appointments—Continued

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Category IV

Locum Tenens Pharmacist
£16 16s, weekly, Duties at Mayday Hospital
or Croydon Eye Unit as required,
Modern Pharmacy, Good working conditions,
Canteen on hospital premises, Vacancy on
week-to-week basis for indefinite period.
Application in writing, giving details of age,
qualifications and previous experience to the
undersigned. undersigned.

GEORGE A. PAINES, Group Secretary.

General Hospital, London Road, Croydon,

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8 (General 146 Beds)

Pharmacist
for modern department, Permanent post vacant
due to retirement, Salary £600—£815, plus
appropriate higher qualification allowance, Apply with details of agc, training and experience
to the Hospital Secretary. C 398

NAPSBURY (MENTAL)
HOSPITAL MANAGEMENT
COMMITTEE
Nr. ST. ALBANS, HERTS
Locum Tenens Pharmacist
required at £16 16s. per week. Details to the
Group Secretary with names of two referees in
an envelope to be endorsed "Locum Pharmacist."
C 8101

NOTTINGHAM No. 1 HOSPITAL MANAGEMENT COMMITTEE, NOTTINGHAM EYE HOSPITAL

Chief Pharmacist (Category II)
Applications are invited for the appointment of Chief Pharmacist (non-resident) at the above

of Chief Pharmacist (non-resident) at the above Hospital.
Salary and conditions of service in accordance with Whitley Council Regulations.
Applications giving full particulars together with the names of three referees to be sent as soon as possible to the Group Secretary, General Hospital, Nottingham,

C 408

NAPSBURY (MENTAL) HOSPITAL MANAGEMENT COMMITTEE Nr. ST. ALBANS, HERTS

Senior Pharmacist
Applications are invited for the above post, £650 x £30 (6)—£830. New pharmacy completed

Applications to the Group Secretary, with names of two referees, endorsed "Senior Pharmacist."

PINDERFIELDS GENERAL

PINDERFIELDS GENERAL
HOSPITAL, WAKEFIELD
Assistant-in-Dispensing
required. Apothecaries' Hall Certificate preferred. Whitley Council salary scale applies.
Address written applications, giving full personal
particulars and two names and addresses for
reference, to W. BOWRING, Group Secretary,
Pinderfields General Hospital, Wakefield.

C 8161

PRESTON AND CHORLEY HOSPITAL MANAGEMENT COMMITTEE, SHAROE GREEN HOSPITAL, PRESTON

Pharmacist

Applications are invited for the post of Pharmacist at the above busy general hospital. Excellent opportunities to obtain wide experi-

Excellent opportunities to obtain wide ence in hospital pharmacy. Whitley Council scale and conditions. Salary £580—£785 per annum, plus £25 per annum higher qualification allowance. Applications with names of two referees, to the Group Secretary, Royal Infirmary, Preston, C 8182

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE, ASHFORD HOSPITAL

ASHFORD HOSPITAL,
ASHFORD, MIDDLESEX
Pharmacist
required on salary scale £580 to £785 per
annum, plus London Weighting Allowance. OR
Locum Pharmacist, salary £16 16s, per week,
Applications, stating age, qualifications and
experience, with copies of up to three recent
testimonials, to Medical Director of Hospital
immediately. C 385

PINEWOOD HOSPITAL, NINE MILE RIDE, **WOKINGHAM**

Locum Chief Pharmacist
required for two weeks from September
Salary £16 16s, per week. Residential accommodation available, £135 p.a. Applications

Socretary.

SOUTH-WEST DURHAM
HOSPITAL MANAGEMENT
COMMITTEE
Chief Pharmacist (Category II)
required at Holywood Hall Hospital, Wolsingham, Salary £725-£990 per annum plus £25 if holding higher qualification, N.H.S. conditions and superannuation, Application forms from the undersigned to be returned by July 12.
K. G. T. LUXFORD,
Group Secretary/Finance Officer,
C 8138

ST. ALBANS CITY HOSPITAL, NORMANDY ROAD, ST. ALBANS, HERTS (384 Beds)

Senior Pharmacist (Category III)

A vacancy will occur in September at the above general Hospital within easy reach of Central London, Whitley Council salary and conditions, Applications stating age, qualifications and experience to the Chief Pharmacist.

C 8160

ST. LEONARD'S HOSPITAL,

S1. LEONARD'S HOSPITAL,
NUTTALL STREET,
LONDON, N.1
Senior Pharmacist
Permanent post in modern department. Salary
£650 to £830, plus appropriate London Weighting and high qualification allowance. Apply
with details of age, training and experience to
Hospital Secretary. C 400

STEPPING HILL HOSPITAL,

STOCKPORT
Student Pharmacist
Applications are invited from post-graduate students for the above post.
Applications stating age, educational qualifications, etc., to the Secretary, Stockport and Buxton H.M.C., 59B Shaw Heath, Stockport C 8168

ST. LEONARD'S HOSPITAL, NUTTALL STREET, LONDON, N.1

Locum Pharmacist required immediately. Salary up to 16 gns. a weck, Apply to Hospital Secretary, Telephone; Clerkenwell 2901. C 401

STOCKPORT AND BUXTON HOSPITAL MANAGEMENT COMMITTEE

COMMITTEE

Senior Pharmacist

There is an immediate vacancy at Stepping
Hill Hospital, Stockport, which offers good
experience in a modern department providing
pharmaceutical service to a group of hospitals,
Applications with full particulars to the Secretary, Stockport and Buxton H.M.C., 598
Shaw Heath, Stockport.

C 8169

ST. LEONARD'S HOSPITAL, **NUTTALL STREET, N.1.**

Shoreditch 3311

required from 15th to 20th September, Salary 16 gns, per week, Applications to Chief Pharmacist.

WEST MIDDLESEX HOSPITAL,

Assistant-in-Dispensing required in Pharmaceutical Department for varied duties, Salary £395 per annum at age 22, rising to £520 (additional payment of £20 per annum for suitable qualification).

Apply, giving names of two referees to the Chief Pharmacist.

C 406

WEST WALES HOSPITAL

MANAGEMENT COMMITTEE,
GLANGWILI, CARMARTHEN

Pharmacist

Applications are invited for the above post in the Group Pharmacy situated at the West Wales General Hospital, Carmarthen. Salary scale; £580 x £36 (5) to £760 x £25 (1) to £785. Terms and conditions of service in accordance with the recommendations of the Pharmaceutical Whitley Council. Applications, giving particulars of age, qualifications and experience, together with names and addresses of three referees to M. A. Ball, Group Secretary, West Wales H.M.C., Glangwili, Carmarthen.

C 8162

WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX

Pharmacist
for Main Pharmaceutical Department. Salary £580—£785 per annum, plus London Weighting. Whitley conditions and assimilation point in salary scale according to experience.

Apply giving age, qualifications and experience, with names of referees to the Chief Pharmacist. C 405

WINWICK AND NEWCHURCH HOSPITAL MANAGEMENT COMMITTEE

Applications are invited for the post of Senior Pharmacist in the Group Pharmaceutical Department at Winwick Hospital (2,305 beds). Salary £650 x £30 (6)—£830,

Also

Locum Pharmacist
required for any four consecutive weeks July
August. Salary 16 guineas per week.
Applications giving date of birth, full particulars regarding qualifications, and experience together with names and addresses of two referees should be forwarded to the Secretary (Ref.:

C & D/92), Winwick Hospital, Warrington.

C 8185

PUPILS

GENERAL HOSPITAL, SOUTHEND-ON-SEA

SOUTHEND-ON-SEA Students required in the pharmacies of the hospitals in the Southend-on-Sea Group from September 1, 1958. Salary for post-graduate students, £385. The hospitals are situated in pleasant surroundings and the posts offer excellent opportunities for experience in all branches of pharmaceutical work including dispensing for in-patients and for patients from a busy consultative out-patient department, manufacturing, sterilising, dressings and instruments. Applications stating age, particulars of education, etc., with the names of two referees, should be sent to the Secretary at the General Hospital, Southend-on-Sea, as soon as possible.

SITUATIONS VACANT RETAIL (HOME)

RETAIL (HOME)

BIRMINGHAM, 18. Pharmacist required to manage old-established family type branch business in working-class district. Accommodation (large flat) if required. Good salary, plus yearly bonus, Apply, in first instance by letter, to W. Beck & Son, Ltd., 124 Winson Green Road, Birmingham, 18. C 1610

CHEMIST COUNTER ASSISTANT. E.C.1. Experienced drug and cosmetic counters; modern pharmacy. Salary up to £8, scope for promotion, Kendale Chemists, 51 Exmouth Market, London, E.C.1. Terminus 9494. C 8179

FRANCIS the chemists, Wrexham, require pharmacist, lady or gentleman, for responsible post. Large supporting staff. Excellent salary offered to keen energetic type, Congenial working conditions and good prospects. C 1604

NEAR DERBY. Unqualified manager or partmer required for drug stores—formerly pharmacy. Toilet agencies, Kodak, with wine and spirit licence. House attached. Excellent opportunity for energetic man wishing to make progress. References please, Write G. S. Daykin, 9 Nether Edge Road, Sheffield, 7. C 1595

NORTH LONDON. Manager required for busy pharmacy with heavy dispensing connection. Good basic salary plus bonus based on net profit. Living accommodation suitable for a family man. If desired, an investment by way of shares can be taken up, either now or later. Excellent opportunity for keen and energetic pharmacist as the business, although already substantial from the standpoint of turnover, offers plenty of scope for further expansion. All replies treated in strict confidence. Box C 8081.

OLDHAM CO-OPERATIVE CHEMISTS, LTD., invite applications for position of phare-All replies C 8081. OLDHAM CO-OPERATIVE CHEMISTS.

OLDHAM CO-OPERATIVE CHEMISTS, LTD., invite applications for position of pharmacist branch manager. Accommodation, modern house made available, if necessary, Superannuation, Salary and other emoluments, £930. Applications, stating age, experience, etc., to Oldham Co-operative Chemists, Ltd., King Street, Oldham. Co-operative Chemists, Ltd., King Street, Oldham. WANTED IMMEDIATELY, Manager (male/female) for branch pharmacy in model village near Doncaster. No rota duty. Flat in Doncaster available. Salary approx. £1,000, Applications with usual particulars to the Superintendent Chemist, Doncaster Co-operative Chemists, Ltd., P.O. Box 20, Doncaster.

Leading Danish Pharmaceutical Firm

requires highly qualified

PROPAGANDA EXPERT

for ethical preparation and baby food marketed in Asia/Africa. A good general background within medicine and pharmaceutical sales propaganda imperative. He must be thoroughly familiar with the preparation of impressive medical and promotional literature suitable for overseas markets. Experience in similar position with leading firm a pre-requisite, but main stress is on initiative and creative spirit. Candidate is expected occasionally to travel overseas and to give higher training to pharmaceutical branch managers abroad. Box 3040, Nordisk Annonce Bureau, Copenhagen, Denmark.

C 8166

Situations Vacant—Continued

REQUIRED immediately, a pharmacist to manage Pharmacy in Glamorganshire, Good salary, plus unfurnished flat, Phone Frobisher 2548, or write Box C 1608.

RETAIL (OVERSEAS)

UNQUALIFIED gentleman, experienced in Counter Management and staff control, required for pharmacy in the Copperbelt Northern Rhodesia. Passage paid out. Reply with full details to Box C 1600.

WHOLESALE

AN old-established firm of wholesale and manufacturing chemists in Yorkshire requires a representative, resident in Lancashire, to take over existing territory there, Applicants must have experience and connections and be capable of expanding sales in that area, Remuneration by salary, commission and expenses,

C 8128

ALLIED LABORATORIES LIMITED Medical Representatives

Medical Representatives

As a result of reorganisation and expansion, applications are invited for vacancies in the following territories:

1. West London,
2. Cheshire and South Lancashire,
3. Sussex,
Previous experience in representative work is desirable but not essential as training will be given, A sound pharmaccutical and/or medical background is, however, necessary. Applicants should hold a current driving licence and reside in the area for which applying. Remuneration is by salary and expenses and a car is provided. An attractive Life Assurance and Pension Scheme is also in operation, Applications, giving details of career to date, should be addressed to Sales Manager, Allied Laboratories, Ltd.,

140 Park Lane, London, W.1. C 399

ASSISTANT TO WORKS DIRECTOR YOUNG man, preferably with technical background, required to act as assistant to Works Director of a fine ehemical and pharmaceutical manufacturing company. The man selected will, after a period of training, be expected to assume full responsibility for production control and purchasing. Apply, giving full particulars of education, qualifications and experience, to Personnel Officer, British Schering Manufacturing Laboratories, Ltd., Hazel Grove, Cheshire. Grove, Cheshire.

AN OPENING occurs for a first-class representative to cover the Scottish area for important manufacturers of high-quality nationally advertised cosmetics. Applicants must have good sales record and sound connections with chemists and stores. Remuneration by way of salary, commission and expenses. Write fully 10 Sales Director, Box C 8177.

A VACANCY has arisen for a young enthusiastic unqualified assistant to train in London Sales Office with a view to taking over an established territory, calling upon pharmacists, Excellent opportunity exists for the right person who wishes to make salesmanship his career, Reply to Box C 8186.

ASSEMBLER experienced—wholesale chemist's warehouse, E.C.I. Write for interview. Box C 1605.

C. L. BENCARD, LTD.

Medical Representative

An immediate vacancy exists in this progressive British company for a medical representative to eall on doctors, hospitals and pharmaeists in:

Norfolk, Suffolk and Cambridgeshire Applicants should be under 35 years of age and preferably with previous medical experience. They should be of good education and personality. Non-contributory pension and profit participation schemes operate.

Car provided; current driving licence essential. Written applications in confidence to the Sales Manager:

C. L. BENCARD, LTD., Park Royal, London, N.W.10

C 8170

MEDICAL REPRESENTATIVES

progressive, leading Pharmaceutical Company has vacancies for Medical Representatives in the following parts of the United Kingdom.

(1) London (all postal districts).

(2) Lancashire (South and North-

west).

west).
(3) The Midlands,
(4) Somerset and Devon,
(5) Sheffield.
Applications are invited from Pharmacists or men with pharmaceutical experience to fill these positions where enthusiasm and hard work will be rewarded by good conditions of service and assured future. Applications giving full details of career to date should be addressed to Box C 7988.

PARKE, DAVIS & COMPANY, LIMITED

Applications are invited from Pharmacists up to 40 years of age for a special representative appointment in North-west England, Applicants should preferably have had hospital experience, preferably have had hospital experience, as the work involved will be mainly in hospitals in the above area. Initial salary will be based on age and experience, and subsequent adjustment will recognise initiative and ability. A company car will be provided. A generous pension and life assurance plan is in operation. Please write in the first instance, giving details of education, qualifications and experience to Home Sales Manager, Parke, Davis & Company, Limited, Staines Road, Hounslow, Middlesex, C8

WANTED. Assistant lady or gentleman chemist with qualification or experience for the analysis of food and drugs in a factory in pleasant surroundings in the Watford district, Five-day week, canteen and recreation facilities. Please write giving all details and salary required to Box C 8148.

CYANAMID OF GREAT BRITAIN LIMITED LEDERLE LABORATORIES DIVISION

invite applications for the position of

MALE ASSISTANT in the PACKAGING GROUP

Applicants should be between 20-30 years of age and have attained G.C.E. "O" Level standard of education. A Pharmaceutical background and some knowledge of French and/or German would be an advantage. Main duties include checking and arrangement of label texts and control of printing plates. plates.

Hours, 9–5.15 Monday to Friday. There is a pension scheme and Canteen, Social Club facilities are avail-

Full detailed application stating salary required should be addressed to:—
The Personnel Manager, Cyanamid of
Great Britain, Ltd., Lederle Laboratories Division, Fareham Road, Gosport, Hants.

PARKE, DAVIS & COMPANY, LIMITED

Applications are invited from Pharmacists up to 35 years of age, who are interested in making a career as a medical representative in the following

1. North London.
2. Hertfordshire and Bedfordshire.
Previous experience is unnecessary as thorough training will be given, but applicants should have a good pharmaceutical background and a keen interest in ethical pharmacy.

ceutical background and a keen interest in ethical pharmacy.

Initial salary will be based on age and experience, subsequent adjustment will recognise initiative and ability. Company car provided. A generous Pension and Life Assurance Plan is in operation

Please write in the first instance, giving details of age, education, qualifications and experience, to the Home Sales Manager, Parke, Davis & Company, Limited, Staines Road, Hounslow, C 8152

AGENTS WANTED

AGENTS REQUIRED by manufacturers of toilet rolls and paper products. Good commission. Box PP.66913, Samson Clarks, 57/61 Mortimer Street, London, W.I. C 8175 M.A.A.—The Badge of a good manufacturers' agent. Manufacturers requiring reputable agents are invited to communicate with the Secretary. The Manufacturers' Agents' Association of agent. Manufacturers requiring reputable agents are invited to communicate with the Secretary. The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membersh'p available to established agents only. Particulars supplied. C 4

SITUATIONS WANTED WHOLESALE

PHARMACIST (43), due conversion manufac-turer to wholesaler, requires production post shortly, steriles, general pharmaceuticals. Also interested automatic and electronic methods. Box C 1597.

ROCHE

THE CHANCE OF A STEADY CAREER

Opportunities are offered to outstanding young men with drive and initiative wishing to start as medical representatives. A pharmaceutical qualification/experience or equivalent academic attainment essential. Vacancies occur in:

1. London/Essex. 2. London/Kent.

3. Yorkshire (W. Riding). 4. N.E. England.

with further developments contemplated. Applications from other areas will receive consideration. Training commences October. Good salary, exceptional pension scheme, full expenses; successful applicants are assisted to own their own cars. First-class candidates desiring success and security should apply with full details to the Secretary, Roche Products Ltd., 15 Manchester Square, London, W.1. Applications will be treated as confidential. with further developments contemplated. Applications

Manufacturing Executive—Pharmacetuicals

A growing but prominent organisation in the pharmaceutical industry will appoint a qualified executive in charge of its manufacturing operations. The company, located in Bucking-hamshire, is a leading speciality house affiliated to a world-wide group, and has continually and successfully pursued a vigorous development policy in post-war years. The appointment, ultimately Board-level, calls for management talent and pharmaceutical qualification, and carries the widest responsibilities for manufacturing, processing, production, quality control and some product development, reporting directly to the Managing Director. The Company's operations are well supported by research. An established organisation structure and the finest facilities will support the successful candidate and rewards and benefits will be fully commensurate with the responsibilities.

candidate and rewards and benefits will be fully commensurate with the responsibilities.

The Company's staff are aware of this advertisement and applications will be held in the strictest confidence. Both personal and commercial history should be presented in the fullest detail and a recent photograph (which will be returned) will be helpful. Applications should be addressed marked "Confidential" to the Managing Director, Box C 1599.

UCAL — LONDON REPRESENTATIVE

Applications are invited from experienced men to represent the Company in North London including Essex. A wide knowledge of all aspects of the Chemists' Trade is needed.

Permanent post with good remuneration and pension scheme.

The position on the territory is established but has great possibilities.

Apply with full details in strict confidence to Sales Manager, United Chemists Association Limited, Ucal Works, Cheltenham.

SANDOZ PRODUCTS LIMITED

require a Pharmacist

Applications are invited from male pharmacists for a post in the London Office of Sandoz Products Ltd.

Candidates should not be more than 35. Previous hospital or industrial experience and the possession of a higher qualification are desirable but not essential. Attractive remuneration commensurate with experience; bonus scheme; five-day week; generous Pension and Accidents Insurance Schemes, etc.

Applications in writing, including a summary of career, should be addressed to:

THE MANAGEMENT, SANDOZ PRODUCTS LIMITED SANDOZ HOUSE, 23 GREAT CASTLE ST., LONDON, W.I

C. 8130

SANDOZ PRODUCTS LIMITED

require

FIRST - CLASS

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